NASA Contractor Report 182296 - Vol-2

# Shear Flow Control of Cold and Heated Rectangular Jets by Mechanical Tabs

Vol. II - Tabulated Data

W.H. Brown and K.K. Ahuja



Prepared for
Lewis Research Center
under Contract NAS3-25409



May 1989

Date for general release March 1994

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## SUMMARY

Volume II contains the tabulated test data used in Volume I - Results and Discussion.

## 1.0 ORGANIZATION OF TABULATED DATA

This volume contains tabulated data for each of the data runs cited in Volume I - Results and Discussion. The data sets are grouped by the purpose for which the data were acquired. The following groups correspond to the data listings in the body of the report:

* Baseline Characteristics
* Mixing Modification, Subsonic, Unheated, $X/D_e = 9$
* Mixing Modification, Supersonic, Unheated, $X/D_e = 9$
* Mixing Modification, Subsonic, Unheated, $X/D_e$ Effect
* Mixing Modification, Subsonic, Heated
* Miscellaneous

Each group section is headed by a chart that lists the data sets that make up the section in a logical order according to Configuration, $X/D_e$, $T_j/T_0$, $M_j$, and traverse plane.

## 2.0 RECTANGULAR NOZZLE AND TAB DESIGN

A rectangular nozzle having an aspect ratio (AR) of 4 was used in this study. The nozzle exit dimensions of 3.54 inch (89.9 mm) wide , w, and 0.866 inch (22.0 mm) high, h, result from the requirement that the nozzle have the same exit area as a 2-inch (50.8 mm) diameter (D) circular nozzle.

The design of the nozzle is shown in Figure 1, and details of the nozzle exit and tab designs are shown in Figure 2.

NOTE: ① NOZZLE TO BE FABRICATED FROM 4.0 INCH SCH 40 SS PIPE WITH 0.25 SS PLATE SIDES WELDED ON TO MACHINED PIPE.
② TOTAL LENGTH NOT CRITICAL IF HOLDING FIXT IN MACHINE IS A PROBLEM.

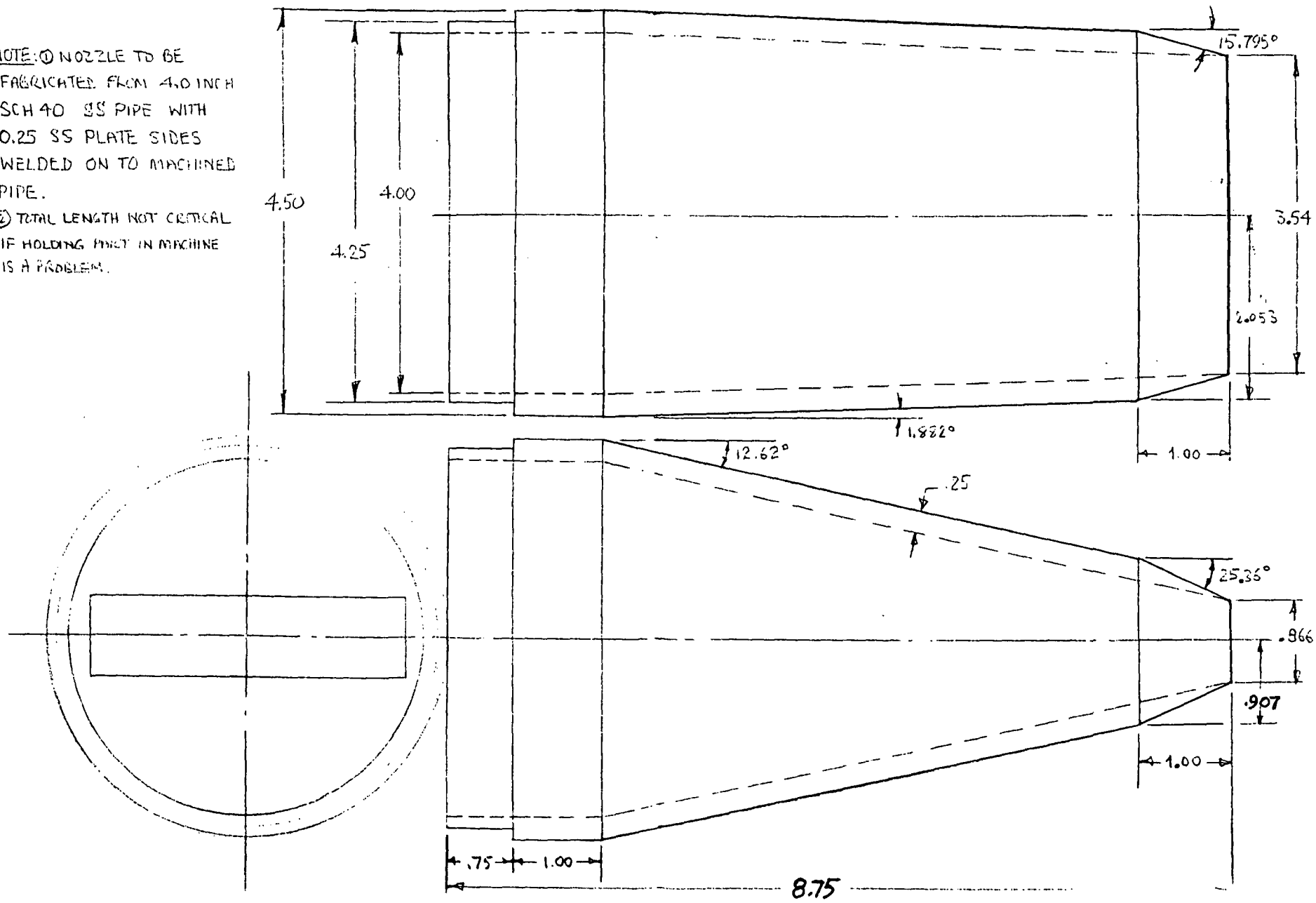
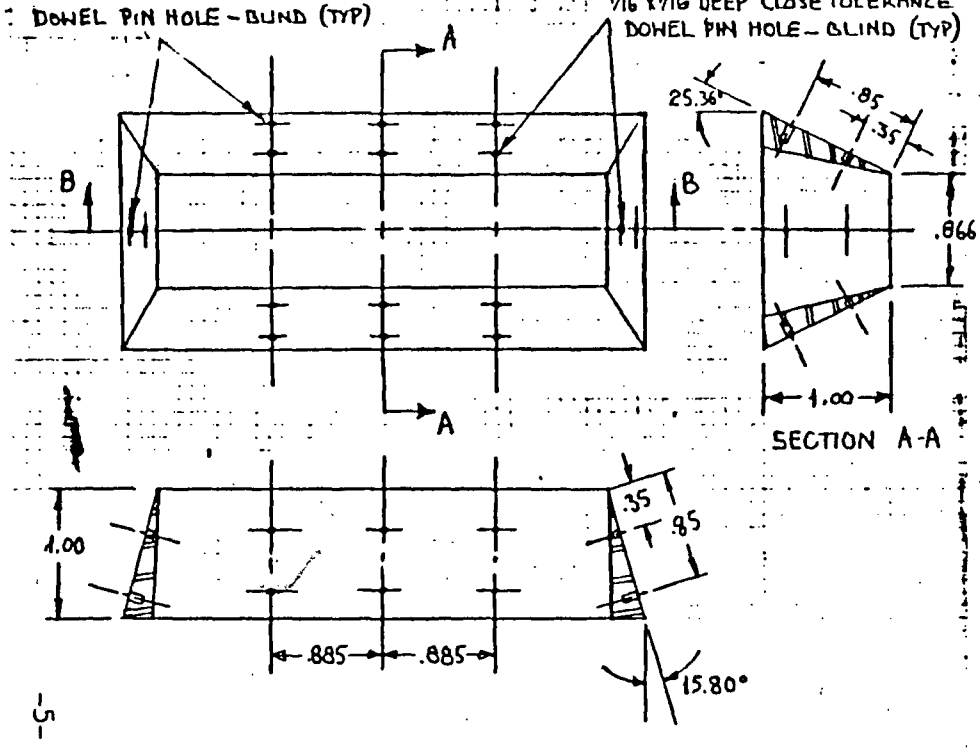
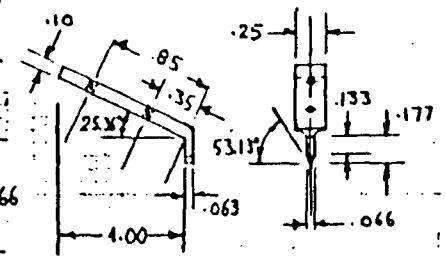


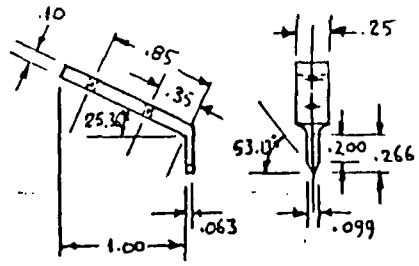

Figure 1 Nozzle Design



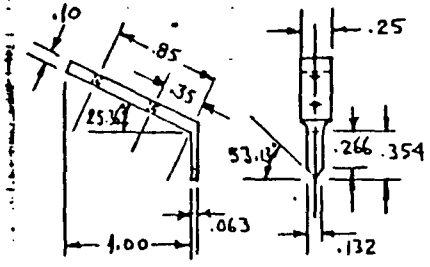

1 NOZZLE EXIT DETAILS - TAB ATTACHMENT



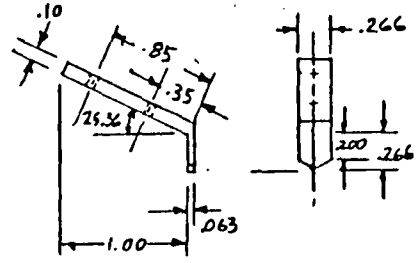

3 TAB #1 - 4 REQ'D



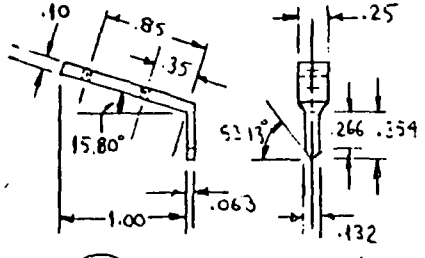

4 TAB #2 - 4 REQ'D



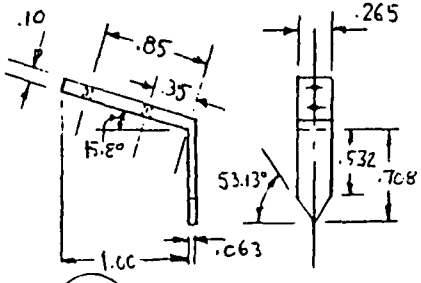

5 TAB #3 - 4 REQ'D




2 TAB #6 - 2 REQ'D




6 TAB #4 - 2 REQ'D




7 TAB #5 - 2 REQ'D

TAB DETAILS

ORIGINAL PAGE IS OF POOR QUALITY

Figure 2 Nozzle Exit and Tab Design Details

## 3.0 TAB CONFIGURATIONS AND SIZES

Various tab configurations that were tested in this program are shown in Figure 3, and the exact tab sizes for each configuration are shown in Figure 4.

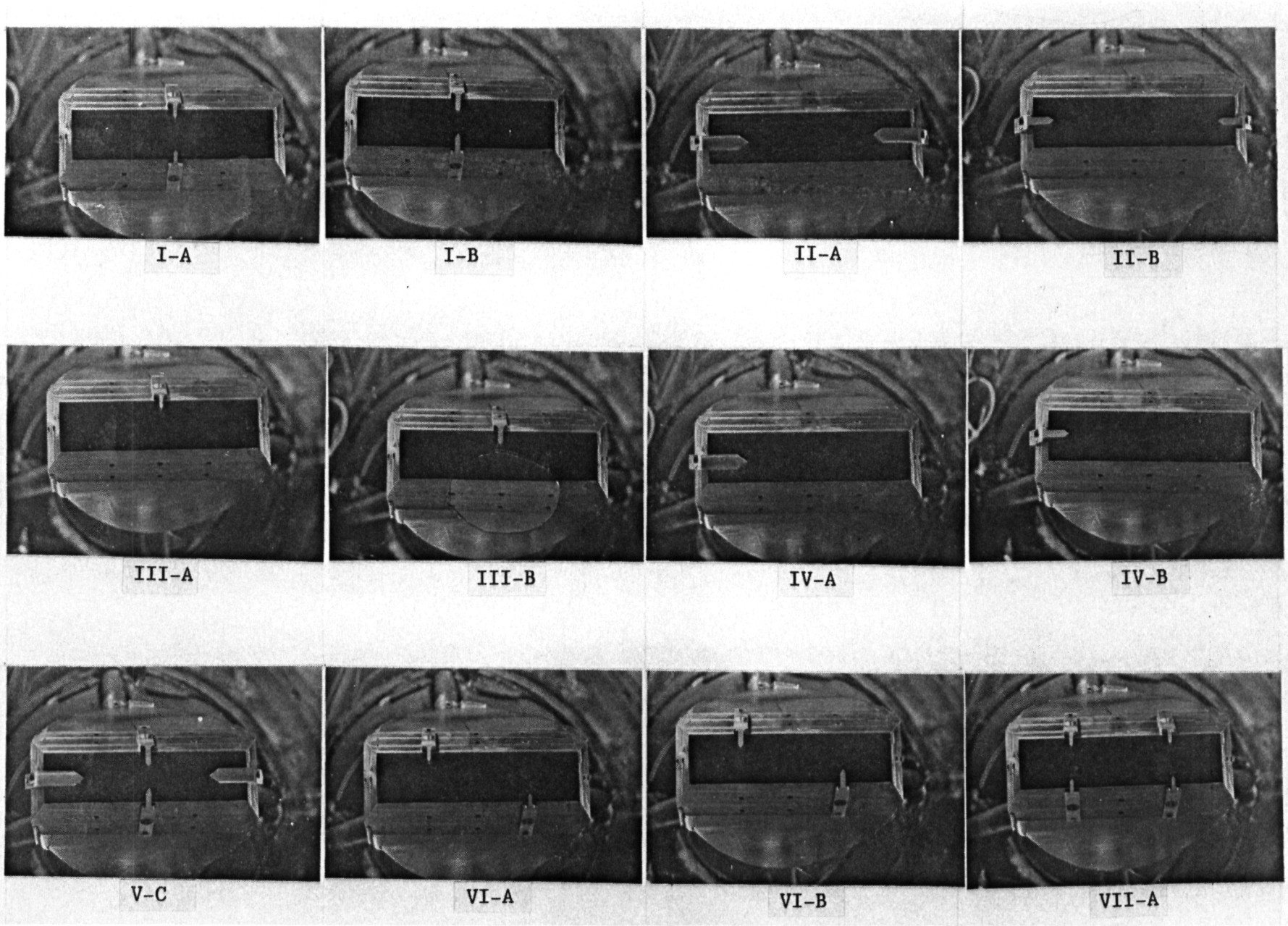
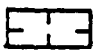



Figure 3 Tab Configurations

| CONFIGURATION | | MAJOR AXIS | | MINOR AXIS | |
|---|---|---|---|---|---|
| | | $w_p$ | $d_p$ | $w_p$ | $d_p$ |
| I-A |  | - - - | - - - | 0.066 | 0.177 |
| I-B | | - - - | - - - | 0.099 | 0.265 |
| I-C | | - - - | - - - | 0.265 | 0.265 |
| II-A |  | 0.265 | 0.708 | - - - | - - - |
| II-B | | 0.133 | 0.354 | - - - | - - - |
| III-A |  | - - - | - - - | 0.066 | 0.177 |
| III-B | | - - - | - - - | 0.132 | 0.354 |
| IV-A |  | 0.265 | 0.708 | - - - | - - - |
| IV-B | | 0.133 | 0.354 | - - - | - - - |
| V-C |  | 0.265 | 0.708 | 0.099 | 0.265 |
| VI-A |  | - - - | - - - | 0.066 | 0.177 |
| VI-B | | - - - | - - - | 0.099 | 0.265 |
| VII-A |  | - - - | - - - | 0.066 | 0.177 |
| VII-B | | - - - | - - - | 0.099 | 0.265 |

Dimensions in inches.

Figure 4 Tab Sizes

## 4.0 NOMENCLATURE, COORDINATE SYSTEM, AND TRAVERSE PATHS

This section presents the coordinate system and the traverse paths used in Figures 5 and 6, respectively.

### 4.1 Nomenclature

The terminology and symbols used in this report are given in Figures 5, 6, and 7.

### 4.2 Coordinate System and Traverse Paths

The orthogonal coordinate system has its origin at the center of the nozzle exit plane. The X-coordinate is positive in the downstream direction, the Y-coordinate is positive to the left of the jet axis looking downstream, and the Z-coordinate is positive upwards as shown in Figure 5.

Horizontal traverses were made through the axis of the jet and parallel to the major axis of the rectangular nozzle. Vertical traverses were made similarly but referenced to the minor axis of the nozzle. Diagonal traverses were made in the horizontal direction but with the nozzle rotated clockwise 14 degrees looking downstream for the -14 degree case and counterclockwise for the +14 degree case. These traverses are shown in Figure 6.

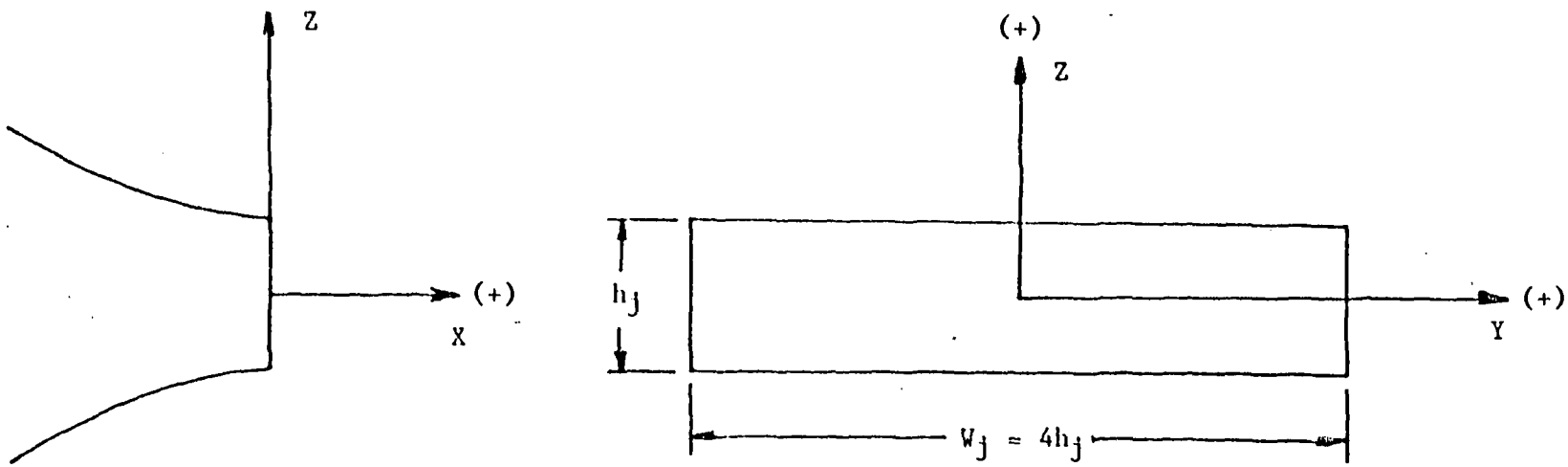



Figure 5 Coordinate System

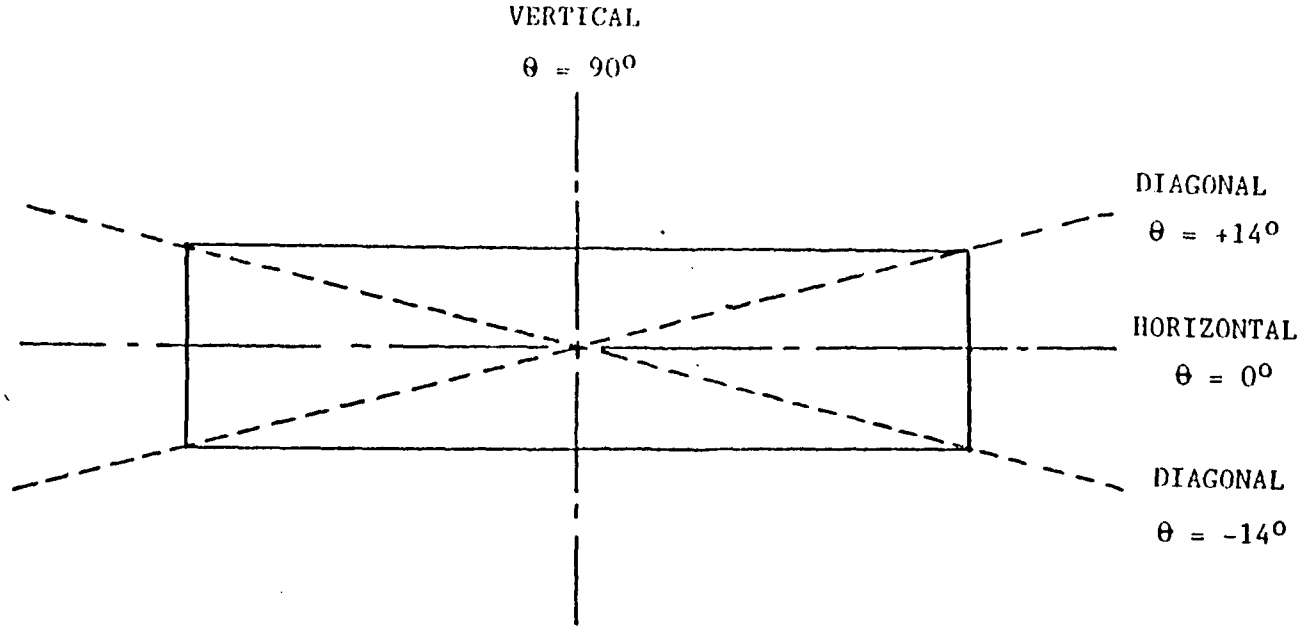



Figure 6 Traverse Paths

## 5.0 Tabulation Format

A typical data set is annotated in Figure 7 as a guide to the data contained therein.

File : TAB220T..** Name of the data file **  7-DEC-88..** Date reduced **
7-DEC-88

Reduced experimental data file

DIAGONAL PROFILE.....** Title **

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config II(a), -14 deg
....** Comments by the Test Engineer **

C1 : X/D = 9....** X-coordinate **
C2 : DIAGONAL...** Y-coordinate **
C3 : ZERO.....** Z-coordinate **
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
~~P3 : Dif. btw. prb. tot. & stat. press.~~
..** Identification of column headings **
** (p3 is not used) **
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
~~P3 ... P305D/1 - 20 psi~~

Mean absolute ambient press. : 98.036 kPa

Mean gauged plenum pressure : 124.604 kPa
RMS gauged plenum pressure : 0.663 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 121.165 | 0.090 | 0.012 | 291.6 | 282.9 | 290.8 | 290.7 |
| 3 | 457.20 | -105.00 | 0.00 | 124.015 | 0.040 | 0.012 | 291.5 | 282.9 | 290.9 | 290.9 |
| 4 | 457.20 | -100.00 | 0.00 | 124.302 | 0.018 | 0.013 | 291.6 | 282.9 | 291.0 | 291.0 |
| 5 | 457.20 | -95.00 | 0.00 | 123.669 | 0.013 | 0.013 | 291.4 | 283.0 | 291.0 | 291.0 |
| 6 | 457.20 | -90.00 | 0.00 | 123.179 | 0.012 | 0.012 | 291.6 | 283.0 | 291.1 | 291.1 |
| 7 | 457.20 | -85.00 | 0.00 | 124.877 | 0.011 | 0.013 | 291.6 | 283.0 | 291.1 | 291.1 |
| 8 | 457.20 | -80.00 | 0.00 | 124.729 | 0.009 | 0.012 | 291.7 | 283.0 | 291.1 | 291.1 |
| 9 | 457.20 | -75.00 | 0.00 | 124.662 | 0.007 | 0.013 | 291.6 | 283.0 | 291.1 | 291.1 |
| 10 | 457.20 | -70.00 | 0.00 | 124.600 | 0.011 | 0.013 | 291.7 | 283.0 | 291.1 | 291.1 |
| 11 | 457.20 | -65.00 | 0.00 | 124.517 | 0.012 | 0.012 | 291.6 | 283.1 | 291.1 | 291.1 |
| 12 | 457.20 | -60.00 | 0.00 | 124.554 | 0.195 | 0.012 | 291.6 | 283.0 | 291.1 | 290.9 |
| 13 | 457.20 | -55.00 | 0.00 | 124.557 | 0.523 | 0.012 | 291.5 | 283.0 | 291.1 | 290.7 |
| 14 | 457.20 | -50.00 | 0.00 | 124.695 | 1.359 | 0.012 | 291.5 | 283.1 | 291.1 | 290.0 |
| 15 | 457.20 | -45.00 | 0.00 | 124.784 | 2.409 | 0.013 | 291.5 | 283.0 | 291.0 | 289.0 |



Figure 7 Annotated Data Set

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.790 | 4.201 | 0.012 | 291.5 | 283.0 | 291.0 | 287.5 |
| 17 | 457.20 | -35.00 | 0.00 | 124.833 | 6.877 | 0.012 | 292.0 | 283.0 | 291.0 | 285.4 |
| 18 | 457.20 | -30.00 | 0.00 | 125.039 | 10.333 | 0.011 | 292.4 | 283.0 | 291.2 | 283.0 |
| 19 | 457.20 | -25.00 | 0.00 | 125.221 | 15.833 | 0.012 | 292.3 | 283.0 | 291.2 | 279.0 |
| 20 | 457.20 | -20.00 | 0.00 | 125.289 | 22.140 | 0.012 | 292.2 | 283.0 | 291.2 | 274.7 |
| 21 | 457.20 | -15.00 | 0.00 | 125.364 | 30.735 | 0.012 | 292.4 | 283.0 | 291.2 | 269.3 |
| 22 | 457.20 | -10.00 | 0.00 | 125.251 | 39.851 | 0.012 | 293.1 | 283.0 | 291.2 | 264.1 |
| 23 | 457.20 | -5.00 | 0.00 | 125.155 | 46.772 | 0.012 | 292.7 | 282.9 | 291.1 | 260.3 |
| 24 | 457.20 | 0.00 | 0.00 | 125.033 | 49.179 | 0.013 | 292.0 | 283.0 | 291.0 | 259.0 |
| 25 | 457.20 | 5.00 | 0.00 | 124.905 | 45.045 | 0.012 | 291.7 | 282.9 | 290.8 | 261.0 |
| 26 | 457.20 | 10.00 | 0.00 | 124.846 | 36.650 | 0.012 | 291.4 | 282.9 | 290.5 | 265.2 |
| 27 | 457.20 | 15.00 | 0.00 | 124.811 | 28.134 | 0.012 | 291.4 | 282.9 | 290.4 | 270.2 |
| 28 | 457.20 | 20.00 | 0.00 | 124.760 | 19.168 | 0.012 | 291.5 | 282.9 | 290.3 | 275.8 |
| 29 | 457.20 | 25.00 | 0.00 | 124.816 | 12.498 | 0.012 | 291.5 | 282.9 | 290.3 | 280.5 |
| 30 | 457.20 | 30.00 | 0.00 | 124.843 | 7.778 | 0.012 | 291.4 | 282.9 | 290.2 | 283.9 |
| 31 | 457.20 | 35.00 | 0.00 | 124.945 | 4.575 | 0.012 | 291.2 | 282.9 | 290.0 | 286.2 |
| 32 | 457.20 | 40.00 | 0.00 | 124.854 | 2.793 | 0.012 | 291.2 | 283.0 | 290.0 | 287.7 |
| 33 | 457.20 | 45.00 | 0.00 | 124.580 | 1.281 | 0.012 | 291.3 | 282.9 | 290.0 | 288.9 |
| 34 | 457.20 | 50.00 | 0.00 | 124.692 | 0.573 | 0.012 | 291.2 | 282.9 | 290.0 | 289.5 |
| 35 | 457.20 | 55.00 | 0.00 | 124.776 | 0.207 | 0.012 | 291.2 | 282.9 | 289.9 | 289.7 |
| 36 | 457.20 | 60.00 | 0.00 | 124.767 | 0.049 | 0.012 | 291.3 | 282.9 | 290.0 | 290.0 |
| 37 | 457.20 | 65.00 | 0.00 | 124.722 | 0.008 | 0.012 | 291.2 | 282.9 | 290.1 | 290.1 |
| 38 | 457.20 | 70.00 | 0.00 | 124.616 | 0.007 | 0.012 | 291.2 | 282.8 | 290.2 | 290.2 |
| 39 | 457.20 | 75.00 | 0.00 | 124.576 | 0.007 | 0.012 | 291.4 | 282.9 | 290.3 | 290.3 |
| 40 | 457.20 | 80.00 | 0.00 | 124.498 | 0.008 | 0.012 | 291.6 | 282.9 | 290.5 | 290.5 |
| 41 | 457.20 | 85.00 | 0.00 | 124.456 | 0.008 | 0.013 | 291.5 | 282.8 | 290.5 | 290.5 |
| 42 | 457.20 | 90.00 | 0.00 | 124.469 | 0.009 | 0.013 | 291.4 | 282.8 | 290.5 | 290.5 |
| 43 | 457.20 | 95.00 | 0.00 | 124.462 | 0.009 | 0.013 | 291.5 | 282.8 | 290.6 | 290.6 |
| 44 | 457.20 | 100.00 | 0.00 | 124.526 | 0.009 | 0.015 | 291.5 | 282.9 | 290.7 | 290.7 |
| 45 | 457.20 | 105.00 | 0.00 | 124.601 | 0.010 | 0.015 | 291.5 | 282.8 | 290.7 | 290.7 |
| 46 | 457.20 | 110.00 | 0.00 | 124.681 | 0.010 | 0.013 | 291.5 | 282.8 | 290.7 | 290.7 |



Figure 7 (continued) Annotated Data Set

## 6.0 TABULATIONS

Each group of tabulations is headed by a chart that identifies the test conditions, traverse paths, and corresponding run numbers for that group. These charts are as follows:

Figure 8. Baseline Test Conditions and Run Numbers

Figure 9. Mixing Modification Test Conditions and Run Numbers - $M_j = 0.8$

Figure 10. Mixing Modification Test Conditions and Run Numbers - $M_j = 1.15$

Figure 11. Effect of Axial Distance on Mixing Modification

Figure 12. Mixing Modification for Heated Subsonic Jets

Figure 13. Miscellaneous

Each tabulation is identified by the run number which is shown after "FILE:" in the upper left corner of the first page of the tabulation.

| CONFIGURATION | $X/D_E$ | $T_j/T_o$ | $M_j$ | HORIZONTAL | VERTICAL | DIAGONAL -14° | DIAGONAL +14° |
|---|---|---|---|---|---|---|---|
| 0 - 0 | 15 | 1 | 0.8 | TAB282T | TAB281T | TAB287T | - - - - |
| (BASELINE) | 13 | 1 | 0.8 | TAB302T | TAB293T | TAB145T | - - - - |
| | 11 | 1 | 0.8 | TAB134T | TAB133T | TAB143T | - - - - |
| | 9 | 1 | 0.8 | TAB147T | TAB146T | TAB165T | - - - - |
| | 7 | 1 | 0.8 | TAB130T | TAB129T | TAB144T | - - - - |
| | 5 | 1 | 0.8 | TAB128T | TAB127T | TAB329T | - - - - |
| | 2 | 1 | 0.8 | TAB126T | TAB125T | TAB137T | - - - - |
| | 1 | 1 | 0.8 | - - - - | TAB135T | TAB136T | - - - - |
| | 5 | 2.3 | 0.8 | TAB337T | TAB338T | TAB343T | - - - - |
| | 7 | 2.3 | 0.8 | TAB350T | TAB349T | - - - - | - - - - |
| | 9 | 2.3 | 0.8 | TAB332T | TAB331T | TAB346T | - - - - |
| | 13 | 2.3 | 0.8 | TAB356T | TAB355T | - - - - | - - - - |
| | 9 | 1 | 1.15 | TAB185T | TAB203T | - - - - | - - - - |

Figure 8 Baseline Test Conditions and Run Numbers

File : TAB282T

26-JAN-89
26-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, BASELINE

C1 : X/D = 15
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.442 kPa

Mean gauged plenum pressure : 51.415 kPa
RMS gauged plenum pressure : 0.119 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 762.00 | -160.00 | 0.00 | 51.409 | 0.041 | 0.018 | 290.1 | 280.8 | 289.9 | 289.9 |
| 3 | 762.00 | -152.00 | 0.00 | 51.432 | 0.037 | 0.015 | 290.1 | 280.7 | 290.0 | 290.0 |
| 4 | 762.00 | -144.00 | 0.00 | 51.442 | 0.054 | 0.013 | 290.2 | 280.8 | 290.0 | 290.0 |
| 5 | 762.00 | -136.00 | 0.00 | 51.459 | 0.080 | 0.015 | 290.0 | 280.7 | 289.9 | 289.8 |
| 6 | 762.00 | -128.00 | 0.00 | 51.465 | 0.201 | 0.015 | 290.0 | 280.7 | 289.9 | 289.7 |
| 7 | 762.00 | -120.00 | 0.00 | 51.462 | 0.275 | 0.012 | 290.1 | 280.7 | 289.9 | 289.7 |
| 8 | 762.00 | -112.00 | 0.00 | 51.485 | 0.415 | 0.013 | 290.1 | 280.7 | 289.9 | 289.6 |
| 9 | 762.00 | -104.00 | 0.00 | 51.479 | 0.641 | 0.014 | 290.0 | 280.7 | 289.8 | 289.3 |
| 10 | 762.00 | -96.00 | 0.00 | 51.556 | 1.060 | 0.013 | 290.1 | 280.7 | 289.8 | 288.9 |
| 11 | 762.00 | -88.00 | 0.00 | 51.575 | 1.509 | 0.014 | 290.2 | 280.7 | 289.7 | 288.4 |
| 12 | 762.00 | -80.00 | 0.00 | 51.541 | 2.067 | 0.013 | 290.6 | 280.7 | 289.7 | 288.0 |
| 13 | 762.00 | -72.00 | 0.00 | 51.485 | 2.806 | 0.013 | 290.7 | 280.6 | 289.7 | 287.4 |
| 14 | 762.00 | -64.00 | 0.00 | 51.492 | 3.330 | 0.013 | 290.8 | 280.6 | 289.6 | 286.9 |
| 15 | 762.00 | -56.00 | 0.00 | 51.489 | 4.281 | 0.012 | 290.9 | 280.7 | 289.7 | 286.2 |
| 16 | 762.00 | -48.00 | 0.00 | 51.473 | 4.869 | 0.013 | 291.0 | 280.6 | 289.4 | 285.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 762.00 | -40.00 | 0.00 | 51.464 | 5.609 | 0.013 | 290.5 | 280.6 | 289.3 | 284.7 |
| 18 | 762.00 | -32.00 | 0.00 | 51.420 | 6.628 | 0.012 | 290.1 | 280.6 | 289.1 | 283.8 |
| 19 | 762.00 | -24.00 | 0.00 | 51.375 | 7.208 | 0.012 | 290.0 | 280.6 | 288.9 | 283.1 |
| 20 | 762.00 | -16.00 | 0.00 | 51.339 | 7.783 | 0.012 | 289.9 | 280.6 | 289.0 | 282.8 |
| 21 | 762.00 | -8.00 | 0.00 | 51.383 | 8.174 | 0.012 | 289.9 | 280.6 | 289.1 | 282.6 |
| 22 | 762.00 | 0.00 | 0.00 | 51.371 | 8.231 | 0.012 | 289.8 | 280.6 | 288.7 | 282.1 |
| 23 | 762.00 | 8.00 | 0.00 | 51.368 | 8.168 | 0.011 | 289.8 | 280.6 | 288.9 | 282.4 |
| 24 | 762.00 | 16.00 | 0.00 | 51.369 | 7.897 | 0.012 | 289.8 | 280.6 | 288.4 | 282.1 |
| 25 | 762.00 | 24.00 | 0.00 | 51.359 | 7.289 | 0.012 | 289.7 | 280.6 | 287.1 | 281.3 |
| 26 | 762.00 | 32.00 | 0.00 | 51.402 | 6.576 | 0.012 | 289.6 | 280.6 | 287.4 | 282.1 |
| 27 | 762.00 | 40.00 | 0.00 | 51.426 | 5.654 | 0.012 | 289.6 | 280.6 | 288.4 | 283.8 |
| 28 | 762.00 | 48.00 | 0.00 | 51.414 | 4.773 | 0.012 | 289.6 | 280.5 | 286.3 | 282.4 |
| 29 | 762.00 | 56.00 | 0.00 | 51.418 | 3.948 | 0.011 | 289.5 | 280.5 | 290.1 | 286.9 |
| 30 | 762.00 | 64.00 | 0.00 | 51.413 | 3.336 | 0.011 | 289.5 | 280.5 | 288.4 | 285.7 |
| 31 | 762.00 | 72.00 | 0.00 | 51.410 | 2.478 | 0.011 | 289.5 | 280.5 | 288.6 | 286.6 |
| 32 | 762.00 | 80.00 | 0.00 | 51.395 | 2.028 | 0.011 | 289.5 | 280.5 | 288.4 | 286.7 |
| 33 | 762.00 | 88.00 | 0.00 | 51.391 | 1.333 | 0.011 | 289.4 | 280.5 | 288.2 | 287.1 |
| 34 | 762.00 | 96.00 | 0.00 | 51.366 | 1.059 | 0.011 | 289.3 | 280.5 | 288.4 | 287.5 |
| 35 | 762.00 | 104.00 | 0.00 | 51.230 | 0.613 | 0.012 | 289.2 | 280.5 | 288.8 | 288.3 |
| 36 | 762.00 | 112.00 | 0.00 | 51.098 | 0.360 | 0.012 | 289.2 | 280.5 | 288.9 | 288.6 |
| 37 | 762.00 | 120.00 | 0.00 | 51.055 | 0.310 | 0.012 | 289.1 | 280.5 | 288.6 | 288.3 |
| 38 | 762.00 | 128.00 | 0.00 | 51.192 | 0.145 | 0.012 | 289.0 | 280.5 | 288.6 | 288.5 |
| 39 | 762.00 | 136.00 | 0.00 | 51.506 | 0.026 | 0.012 | 289.0 | 280.5 | 288.7 | 288.7 |
| 40 | 762.00 | 144.00 | 0.00 | 51.402 | 0.014 | 0.011 | 288.9 | 280.5 | 288.6 | 288.6 |
| 41 | 762.00 | 152.00 | 0.00 | 51.572 | 0.010 | 0.011 | 288.9 | 280.5 | 288.6 | 288.6 |
| 42 | 762.00 | 160.00 | 0.00 | 51.588 | 0.009 | 0.011 | 288.8 | 280.4 | 288.6 | 288.6 |

File : TAB281T 26-JAN-89
26-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, BASELINE

C1 : X/D = 15
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 51.429 kPa
RMS gauged plenum pressure : 0.132 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 762.00 | 0.00 | -120.00 | 51.252 | 0.159 | 0.026 | 290.8 | 281.7 | 290.4 | 290.3 |
| 3 | 762.00 | 0.00 | -116.00 | 51.579 | 0.163 | 0.028 | 290.8 | 281.6 | 290.5 | 290.4 |
| 4 | 762.00 | 0.00 | -112.00 | 51.588 | 0.227 | 0.024 | 290.8 | 281.6 | 290.5 | 290.3 |
| 5 | 762.00 | 0.00 | -108.00 | 51.422 | 0.240 | 0.025 | 290.8 | 281.5 | 290.5 | 290.3 |
| 6 | 762.00 | 0.00 | -104.00 | 51.456 | 0.321 | 0.030 | 290.8 | 281.5 | 290.5 | 290.2 |
| 7 | 762.00 | 0.00 | -100.00 | 51.226 | 0.401 | 0.030 | 290.8 | 281.5 | 290.6 | 290.3 |
| 8 | 762.00 | 0.00 | -96.00 | 51.316 | 0.460 | 0.027 | 290.7 | 281.5 | 290.5 | 290.1 |
| 9 | 762.00 | 0.00 | -92.00 | 51.460 | 0.578 | 0.028 | 290.8 | 281.5 | 290.5 | 290.0 |
| 10 | 762.00 | 0.00 | -88.00 | 51.305 | 0.737 | 0.029 | 290.7 | 281.4 | 290.5 | 289.9 |
| 11 | 762.00 | 0.00 | -84.00 | 51.566 | 0.787 | 0.029 | 290.8 | 281.4 | 290.5 | 289.8 |
| 12 | 762.00 | 0.00 | -80.00 | 51.602 | 0.992 | 0.032 | 290.7 | 281.4 | 290.5 | 289.7 |
| 13 | 762.00 | 0.00 | -76.00 | 51.494 | 1.165 | 0.029 | 290.8 | 281.4 | 290.4 | 289.4 |
| 14 | 762.00 | 0.00 | -72.00 | 51.399 | 1.435 | 0.028 | 291.0 | 281.4 | 290.5 | 289.3 |
| 15 | 762.00 | 0.00 | -68.00 | 51.261 | 1.604 | 0.034 | 291.3 | 281.4 | 290.5 | 289.2 |
| 16 | 762.00 | 0.00 | -64.00 | 51.377 | 1.905 | 0.032 | 291.7 | 281.3 | 290.5 | 288.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 762.00 | 0.00 | -60.00 | 51.318 | 2.194 | 0.035 | 291.8 | 281.3 | 290.6 | 288.8 |
| 18 | 762.00 | 0.00 | -56.00 | 51.390 | 2.498 | 0.033 | 291.6 | 281.3 | 290.6 | 288.5 |
| 19 | 762.00 | 0.00 | -52.00 | 51.577 | 2.847 | 0.031 | 291.5 | 281.3 | 290.6 | 288.2 |
| 20 | 762.00 | 0.00 | -48.00 | 51.579 | 3.330 | 0.034 | 291.0 | 281.3 | 290.5 | 287.7 |
| 21 | 762.00 | 0.00 | -44.00 | 51.617 | 3.772 | 0.028 | 290.9 | 281.3 | 290.5 | 287.4 |
| 22 | 762.00 | 0.00 | -40.00 | 51.560 | 4.277 | 0.024 | 290.9 | 281.3 | 290.6 | 287.1 |
| 23 | 762.00 | 0.00 | -36.00 | 51.275 | 4.684 | 0.023 | 290.9 | 281.3 | 290.5 | 286.7 |
| 24 | 762.00 | 0.00 | -32.00 | 51.410 | 5.282 | 0.021 | 290.9 | 281.3 | 290.5 | 286.2 |
| 25 | 762.00 | 0.00 | -28.00 | 51.357 | 5.686 | 0.022 | 290.8 | 281.3 | 290.3 | 285.7 |
| 26 | 762.00 | 0.00 | -24.00 | 51.355 | 6.226 | 0.019 | 290.8 | 281.3 | 290.3 | 285.3 |
| 27 | 762.00 | 0.00 | -20.00 | 51.393 | 6.873 | 0.020 | 290.7 | 281.2 | 290.2 | 284.7 |
| 28 | 762.00 | 0.00 | -16.00 | 51.609 | 7.366 | 0.015 | 290.8 | 281.3 | 290.2 | 284.3 |
| 29 | 762.00 | 0.00 | -12.00 | 51.446 | 7.776 | 0.013 | 290.8 | 281.3 | 290.1 | 283.9 |
| 30 | 762.00 | 0.00 | -8.00 | 51.538 | 8.013 | 0.013 | 290.8 | 281.2 | 289.9 | 283.5 |
| 31 | 762.00 | 0.00 | -4.00 | 51.448 | 8.084 | 0.013 | 290.7 | 281.2 | 289.8 | 283.3 |
| 32 | 762.00 | 0.00 | 0.00 | 51.382 | 8.273 | 0.013 | 290.8 | 281.2 | 289.7 | 283.1 |
| 33 | 762.00 | 0.00 | 4.00 | 51.370 | 8.144 | 0.012 | 290.7 | 281.2 | 289.6 | 283.1 |
| 34 | 762.00 | 0.00 | 8.00 | 51.330 | 7.970 | 0.012 | 290.8 | 281.2 | 289.5 | 283.1 |
| 35 | 762.00 | 0.00 | 12.00 | 51.278 | 7.612 | 0.012 | 290.8 | 281.1 | 289.3 | 283.2 |
| 36 | 762.00 | 0.00 | 16.00 | 51.499 | 7.216 | 0.012 | 290.6 | 281.1 | 289.1 | 283.3 |
| 37 | 762.00 | 0.00 | 20.00 | 51.421 | 6.967 | 0.012 | 290.7 | 281.1 | 289.0 | 283.4 |

File : TAB287T

27-JAN-89
27-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
BASELINE

C1 : X/D = 15
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.442 kPa

Mean gauged plenum pressure : 51.274 kPa
RMS gauged plenum pressure : 0.127 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 762.00 | -160.00 | 0.00 | 51.439 | 0.043 | 0.013 | 286.4 | 280.4 | 285.5 | 285.5 |
| 3 | 762.00 | -152.00 | 0.00 | 51.411 | 0.036 | 0.018 | 286.6 | 280.4 | 285.6 | 285.6 |
| 4 | 762.00 | -144.00 | 0.00 | 51.250 | 0.051 | 0.020 | 286.7 | 280.4 | 285.7 | 285.7 |
| 5 | 762.00 | -136.00 | 0.00 | 51.243 | 0.108 | 0.019 | 286.6 | 280.4 | 285.9 | 285.8 |
| 6 | 762.00 | -128.00 | 0.00 | 51.218 | 0.168 | 0.025 | 286.6 | 280.4 | 285.9 | 285.8 |
| 7 | 762.00 | -120.00 | 0.00 | 51.131 | 0.324 | 0.024 | 286.6 | 280.4 | 286.0 | 285.7 |
| 8 | 762.00 | -112.00 | 0.00 | 51.387 | 0.460 | 0.020 | 286.7 | 280.4 | 285.9 | 285.5 |
| 9 | 762.00 | -104.00 | 0.00 | 51.316 | 0.796 | 0.020 | 287.1 | 280.4 | 286.3 | 285.6 |
| 10 | 762.00 | -96.00 | 0.00 | 51.284 | 1.086 | 0.020 | 287.0 | 280.5 | 286.0 | 285.1 |
| 11 | 762.00 | -88.00 | 0.00 | 51.135 | 1.331 | 0.021 | 286.8 | 280.5 | 305.5 | 304.3 |
| 12 | 762.00 | -80.00 | 0.00 | 51.120 | 1.723 | 0.019 | 286.8 | 280.4 | 287.3 | 285.9 |
| 13 | 762.00 | -72.00 | 0.00 | 51.231 | 2.338 | 0.019 | 286.9 | 280.5 | 304.4 | 302.4 |
| 14 | 762.00 | -64.00 | 0.00 | 51.223 | 3.347 | 0.020 | 286.6 | 280.5 | 295.9 | 293.1 |
| 15 | 762.00 | -56.00 | 0.00 | 51.238 | 3.841 | 0.021 | 286.4 | 280.4 | 290.7 | 287.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 762.00 | -48.00 | 0.00 | 51.245 | 4.736 | 0.015 | 286.5 | 280.4 | 282.7 | 278.9 |
| 17 | 762.00 | -40.00 | 0.00 | 51.126 | 5.567 | 0.018 | 286.5 | 280.4 | 277.9 | 273.6 |
| 18 | 762.00 | -32.00 | 0.00 | 51.040 | 6.345 | 0.018 | 286.6 | 280.4 | 284.4 | 279.4 |
| 19 | 762.00 | -24.00 | 0.00 | 50.923 | 7.024 | 0.017 | 286.5 | 280.4 | 293.3 | 287.6 |
| 20 | 762.00 | -16.00 | 0.00 | 51.177 | 7.610 | 0.015 | 286.6 | 280.4 | 94.1 | 92.1 |
| 21 | 762.00 | -8.00 | 0.00 | 51.092 | 8.116 | 0.013 | 286.8 | 280.4 | 275.3 | 269.1 |
| 22 | 762.00 | 0.00 | 0.00 | 51.477 | 8.242 | 0.015 | 286.8 | 280.4 | 282.5 | 276.1 |
| 23 | 762.00 | 8.00 | 0.00 | 51.367 | 8.239 | 0.013 | 286.8 | 280.4 | 306.4 | 299.4 |
| 24 | 762.00 | 16.00 | 0.00 | 51.339 | 7.799 | 0.013 | 286.8 | 280.4 | 292.7 | 286.4 |
| 25 | 762.00 | 24.00 | 0.00 | 51.219 | 7.222 | 0.014 | 286.8 | 280.4 | 188.6 | 184.8 |
| 26 | 762.00 | 32.00 | 0.00 | 51.156 | 6.441 | 0.015 | 286.7 | 280.4 | 92.4 | 90.7 |
| 27 | 762.00 | 40.00 | 0.00 | 51.500 | 5.674 | 0.013 | 286.7 | 280.4 | 278.9 | 274.5 |
| 28 | 762.00 | 48.00 | 0.00 | 51.436 | 4.666 | 0.013 | 287.0 | 280.4 | 288.9 | 285.1 |
| 29 | 762.00 | 56.00 | 0.00 | 51.421 | 3.838 | 0.017 | 287.0 | 280.4 | 289.9 | 286.7 |
| 30 | 762.00 | 64.00 | 0.00 | 51.379 | 3.092 | 0.019 | 286.8 | 280.4 | 291.7 | 289.1 |
| 31 | 762.00 | 72.00 | 0.00 | 51.293 | 2.689 | 0.023 | 286.7 | 280.4 | 263.2 | 261.2 |
| 32 | 762.00 | 80.00 | 0.00 | 51.272 | 1.942 | 0.019 | 286.4 | 280.4 | 299.1 | 297.4 |
| 33 | 762.00 | 88.00 | 0.00 | 51.263 | 1.490 | 0.022 | 286.4 | 280.4 | 276.5 | 275.3 |
| 34 | 762.00 | 96.00 | 0.00 | 51.314 | 0.906 | 0.015 | 286.4 | 280.4 | 285.6 | 284.9 |
| 35 | 762.00 | 104.00 | 0.00 | 51.368 | 0.527 | 0.015 | 286.2 | 280.3 | 285.2 | 284.8 |
| 36 | 762.00 | 112.00 | 0.00 | 51.376 | 0.454 | 0.016 | 286.5 | 280.3 | 285.4 | 285.0 |
| 37 | 762.00 | 120.00 | 0.00 | 51.351 | 0.242 | 0.015 | 286.9 | 280.4 | 285.5 | 285.3 |
| 38 | 762.00 | 128.00 | 0.00 | 51.364 | 0.166 | 0.016 | 287.3 | 280.4 | 285.6 | 285.5 |
| 39 | 762.00 | 136.00 | 0.00 | 51.303 | 0.082 | 0.020 | 286.9 | 280.3 | 285.7 | 285.6 |
| 40 | 762.00 | 144.00 | 0.00 | 51.291 | 0.025 | 0.017 | 287.3 | 280.4 | 285.8 | 285.8 |
| 41 | 762.00 | 152.00 | 0.00 | 51.270 | 0.011 | 0.013 | 287.3 | 280.4 | 285.9 | 285.9 |
| 42 | 762.00 | 160.00 | 0.00 | 51.253 | 0.013 | 0.014 | 287.1 | 280.4 | 285.9 | 285.9 |

File : TAB302T 3-FEB-89
3-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
BASELINE

C1 : X/D = 13
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.307 kPa

Mean gauged plenum pressure : 51.331 kPa
RMS gauged plenum pressure : 0.217 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | -160.00 | 0.00 | 51.191 | 0.037 | 0.012 | 288.7 | 282.1 | 288.4 | 288.4 |
| 3 | 660.40 | -152.00 | 0.00 | 51.317 | 0.022 | 0.012 | 288.8 | 282.1 | 288.5 | 288.5 |
| 4 | 660.40 | -144.00 | 0.00 | 51.353 | 0.024 | 0.014 | 288.8 | 282.1 | 288.5 | 288.5 |
| 5 | 660.40 | -136.00 | 0.00 | 51.434 | 0.039 | 0.013 | 288.8 | 282.1 | 288.5 | 288.5 |
| 6 | 660.40 | -128.00 | 0.00 | 51.284 | 0.117 | 0.014 | 288.8 | 282.1 | 288.6 | 288.5 |
| 7 | 660.40 | -120.00 | 0.00 | 51.342 | 0.223 | 0.012 | 288.8 | 282.1 | 288.6 | 288.4 |
| 8 | 660.40 | -112.00 | 0.00 | 51.338 | 0.307 | 0.014 | 288.9 | 282.1 | 288.6 | 288.3 |
| 9 | 660.40 | -104.00 | 0.00 | 51.418 | 0.668 | 0.013 | 289.0 | 282.1 | 288.6 | 288.0 |
| 10 | 660.40 | -96.00 | 0.00 | 51.406 | 1.099 | 0.013 | 289.0 | 282.1 | 288.7 | 287.8 |
| 11 | 660.40 | -88.00 | 0.00 | 51.415 | 1.439 | 0.014 | 289.0 | 282.1 | 288.7 | 287.5 |
| 12 | 660.40 | -80.00 | 0.00 | 51.416 | 2.163 | 0.015 | 289.1 | 282.1 | 288.7 | 286.9 |
| 13 | 660.40 | -72.00 | 0.00 | 51.347 | 2.951 | 0.013 | 289.6 | 282.2 | 288.8 | 286.4 |
| 14 | 660.40 | -64.00 | 0.00 | 51.290 | 3.778 | 0.013 | 290.0 | 282.1 | 288.9 | 285.8 |
| 15 | 660.40 | -56.00 | 0.00 | 51.226 | 4.900 | 0.013 | 290.2 | 282.1 | 288.9 | 284.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | -48.00 | 0.00 | 51.187 | 5.776 | 0.013 | 290.5 | 282.1 | 288.9 | 284.2 |
| 17 | 660.40 | -40.00 | 0.00 | 51.084 | 7.012 | 0.013 | 290.2 | 282.0 | 288.8 | 283.2 |
| 18 | 660.40 | -32.00 | 0.00 | 51.172 | 8.130 | 0.014 | 290.0 | 282.0 | 288.8 | 282.3 |
| 19 | 660.40 | -24.00 | 0.00 | 51.416 | 9.058 | 0.013 | 289.6 | 282.1 | 288.7 | 281.5 |
| 20 | 660.40 | -16.00 | 0.00 | 51.947 | 9.984 | 0.014 | 289.4 | 282.2 | 288.6 | 280.7 |
| 21 | 660.40 | -8.00 | 0.00 | 51.392 | 10.365 | 0.014 | 289.3 | 282.3 | 288.6 | 280.4 |
| 22 | 660.40 | 0.00 | 0.00 | 51.196 | 10.757 | 0.013 | 289.2 | 282.3 | 288.5 | 280.1 |
| 23 | 660.40 | 8.00 | 0.00 | 51.337 | 10.590 | 0.013 | 289.2 | 282.2 | 288.5 | 280.2 |
| 24 | 660.40 | 16.00 | 0.00 | 51.109 | 10.110 | 0.013 | 289.3 | 282.2 | 288.5 | 280.5 |
| 25 | 660.40 | 24.00 | 0.00 | 51.120 | 9.299 | 0.012 | 289.3 | 282.1 | 288.5 | 281.1 |
| 26 | 660.40 | 32.00 | 0.00 | 51.344 | 8.292 | 0.015 | 289.3 | 282.1 | 288.6 | 282.0 |
| 27 | 660.40 | 40.00 | 0.00 | 51.324 | 7.079 | 0.013 | 289.3 | 282.1 | 288.6 | 282.9 |
| 28 | 660.40 | 48.00 | 0.00 | 51.575 | 5.997 | 0.016 | 289.3 | 282.3 | 288.6 | 283.8 |
| 29 | 660.40 | 56.00 | 0.00 | 51.376 | 4.888 | 0.014 | 289.3 | 282.3 | 288.5 | 284.5 |
| 30 | 660.40 | 64.00 | 0.00 | 51.255 | 3.907 | 0.017 | 289.3 | 282.3 | 288.6 | 285.4 |
| 31 | 660.40 | 72.00 | 0.00 | 51.288 | 3.095 | 0.019 | 289.3 | 282.2 | 288.6 | 286.1 |
| 32 | 660.40 | 80.00 | 0.00 | 51.300 | 2.074 | 0.018 | 289.3 | 282.1 | 288.7 | 287.0 |
| 33 | 660.40 | 88.00 | 0.00 | 51.094 | 1.433 | 0.017 | 289.4 | 282.1 | 288.8 | 287.6 |
| 34 | 660.40 | 96.00 | 0.00 | 51.405 | 0.943 | 0.021 | 289.5 | 282.2 | 288.9 | 288.1 |
| 35 | 660.40 | 104.00 | 0.00 | 51.371 | 0.597 | 0.021 | 289.5 | 282.3 | 289.0 | 288.5 |
| 36 | 660.40 | 112.00 | 0.00 | 51.387 | 0.392 | 0.024 | 289.6 | 282.3 | 289.1 | 288.8 |
| 37 | 660.40 | 120.00 | 0.00 | 51.078 | 0.169 | 0.022 | 289.6 | 282.3 | 289.1 | 289.0 |
| 38 | 660.40 | 128.00 | 0.00 | 51.236 | 0.111 | 0.026 | 289.6 | 282.2 | 289.2 | 289.1 |
| 39 | 660.40 | 136.00 | 0.00 | 51.117 | 0.037 | 0.024 | 289.8 | 282.2 | 289.3 | 289.3 |
| 40 | 660.40 | 144.00 | 0.00 | 51.326 | 0.020 | 0.023 | 289.8 | 282.2 | 289.4 | 289.4 |
| 41 | 660.40 | 152.00 | 0.00 | 51.340 | 0.014 | 0.019 | 289.9 | 282.3 | 289.4 | 289.4 |
| 42 | 660.40 | 160.00 | 0.00 | 51.430 | 0.014 | 0.025 | 290.0 | 282.4 | 289.5 | 289.5 |

File : TAB293T 31-JAN-89
31-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, BASELINE

C1 : X/D = 13
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 97.731 kPa

Mean gauged plenum pressure : 51.004 kPa
RMS gauged plenum pressure : 0.103 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | 0.00 | -120.00 | 50.817 | 0.025 | 0.016 | 293.2 | 281.9 | 292.2 | 292.2 |
| 3 | 660.40 | 0.00 | -116.00 | 51.157 | 0.014 | 0.017 | 293.3 | 281.9 | 292.3 | 292.3 |
| 4 | 660.40 | 0.00 | -112.00 | 50.848 | 0.039 | 0.018 | 293.2 | 281.9 | 292.3 | 292.3 |
| 5 | 660.40 | 0.00 | -108.00 | 51.094 | 0.028 | 0.018 | 293.2 | 281.9 | 292.3 | 292.3 |
| 6 | 660.40 | 0.00 | -104.00 | 51.098 | 0.055 | 0.018 | 293.0 | 281.9 | 292.3 | 292.3 |
| 7 | 660.40 | 0.00 | -100.00 | 51.155 | 0.114 | 0.016 | 293.0 | 281.9 | 292.2 | 292.1 |
| 8 | 660.40 | 0.00 | -96.00 | 51.145 | 0.167 | 0.016 | 293.1 | 281.9 | 292.3 | 292.2 |
| 9 | 660.40 | 0.00 | -92.00 | 51.087 | 0.212 | 0.018 | 293.1 | 281.9 | 292.3 | 292.1 |
| 10 | 660.40 | 0.00 | -88.00 | 50.951 | 0.289 | 0.016 | 292.9 | 281.9 | 292.2 | 292.0 |
| 11 | 660.40 | 0.00 | -84.00 | 51.015 | 0.416 | 0.019 | 292.9 | 281.9 | 292.2 | 291.8 |
| 12 | 660.40 | 0.00 | -80.00 | 51.006 | 0.579 | 0.017 | 293.1 | 281.9 | 292.2 | 291.7 |
| 13 | 660.40 | 0.00 | -76.00 | 50.993 | 0.795 | 0.016 | 293.1 | 281.9 | 292.2 | 291.5 |
| 14 | 660.40 | 0.00 | -72.00 | 50.962 | 1.011 | 0.016 | 293.0 | 281.9 | 292.2 | 291.3 |
| 15 | 660.40 | 0.00 | -68.00 | 50.914 | 1.223 | 0.020 | 293.0 | 281.9 | 292.3 | 291.3 |
| 16 | 660.40 | 0.00 | -64.00 | 50.835 | 1.618 | 0.020 | 292.9 | 281.8 | 292.2 | 290.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 660.40 | 0.00 | -60.00 | 50.955 | 1.837 | 0.017 | 292.8 | 281.9 | 292.2 | 290.6 |
| 18 | 660.40 | 0.00 | -56.00 | 50.919 | 2.225 | 0.016 | 293.1 | 281.9 | 292.2 | 290.3 |
| 19 | 660.40 | 0.00 | -52.00 | 51.140 | 2.814 | 0.019 | 293.1 | 281.9 | 292.3 | 289.9 |
| 20 | 660.40 | 0.00 | -48.00 | 51.069 | 3.253 | 0.021 | 293.1 | 281.9 | 292.2 | 289.5 |
| 21 | 660.40 | 0.00 | -44.00 | 50.909 | 3.743 | 0.021 | 292.9 | 281.9 | 292.2 | 289.1 |
| 22 | 660.40 | 0.00 | -40.00 | 50.849 | 4.490 | 0.019 | 293.1 | 281.9 | 292.2 | 288.5 |
| 23 | 660.40 | 0.00 | -36.00 | 51.031 | 5.195 | 0.019 | 293.1 | 281.9 | 292.2 | 287.9 |
| 24 | 660.40 | 0.00 | -32.00 | 51.080 | 5.932 | 0.023 | 293.5 | 281.9 | 293.4 | 288.6 |
| 25 | 660.40 | 0.00 | -28.00 | 51.083 | 6.631 | 0.017 | 293.5 | 281.9 | 292.3 | 286.9 |
| 26 | 660.40 | 0.00 | -24.00 | 51.089 | 7.579 | 0.016 | 293.7 | 281.8 | 294.4 | 288.2 |
| 27 | 660.40 | 0.00 | -20.00 | 51.109 | 8.469 | 0.018 | 294.1 | 281.8 | 292.2 | 285.3 |
| 28 | 660.40 | 0.00 | -16.00 | 51.064 | 9.113 | 0.017 | 293.5 | 281.8 | 292.6 | 285.2 |
| 29 | 660.40 | 0.00 | -12.00 | 51.023 | 9.777 | 0.017 | 293.3 | 281.8 | 292.3 | 284.4 |
| 30 | 660.40 | 0.00 | -8.00 | 51.088 | 10.315 | 0.017 | 293.4 | 281.8 | 96.1 | 93.4 |
| 31 | 660.40 | 0.00 | -4.00 | 51.121 | 10.473 | 0.022 | 293.2 | 281.9 | 116.0 | 112.7 |
| 32 | 660.40 | 0.00 | 0.00 | 51.036 | 10.613 | 0.021 | 293.1 | 281.8 | 106.4 | 103.3 |
| 33 | 660.40 | 0.00 | 4.00 | 50.946 | 10.523 | 0.020 | 293.1 | 281.8 | 294.4 | 285.9 |
| 34 | 660.40 | 0.00 | 8.00 | 50.848 | 10.078 | 0.023 | 292.9 | 281.9 | 84.8 | 82.4 |
| 35 | 660.40 | 0.00 | 12.00 | 50.856 | 9.536 | 0.017 | 293.1 | 281.8 | 94.3 | 91.8 |
| 36 | 660.40 | 0.00 | 16.00 | 50.972 | 9.049 | 0.015 | 293.4 | 281.8 | 190.1 | 185.3 |
| 37 | 660.40 | 0.00 | 20.00 | 50.946 | 8.119 | 0.015 | 293.4 | 281.8 | 0.0 | 0.0 |

File : TAB145T 4-NOV-88
4-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, -14 DEG

C1 : X/D = 13
C2 : DIAGONAL
C3 : Z = 10
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 96.648 kPa

Mean gauged plenum pressure : 51.052 kPa
RMS gauged plenum pressure : 0.047 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | -130.00 | 10.00 | 51.141 | 0.020 | 0.014 | 289.4 | 285.7 | 289.1 | 289.1 |
| 3 | 660.40 | -125.00 | 10.00 | 51.106 | 0.052 | 0.022 | 289.4 | 285.7 | 288.7 | 288.7 |
| 4 | 660.40 | -120.00 | 10.00 | 51.068 | 0.055 | 0.015 | 289.4 | 285.7 | 288.6 | 288.6 |
| 5 | 660.40 | -115.00 | 10.00 | 51.036 | 0.110 | 0.016 | 289.4 | 285.7 | 288.6 | 288.5 |
| 6 | 660.40 | -110.00 | 10.00 | 51.026 | 0.206 | 0.014 | 289.4 | 285.7 | 288.4 | 288.2 |
| 7 | 660.40 | -105.00 | 10.00 | 51.024 | 0.400 | 0.018 | 289.4 | 285.7 | 288.4 | 288.1 |
| 8 | 660.40 | -100.00 | 10.00 | 51.039 | 0.530 | 0.020 | 289.4 | 285.7 | 288.2 | 287.7 |
| 9 | 660.40 | -95.00 | 10.00 | 51.052 | 0.533 | 0.019 | 289.4 | 285.7 | 288.2 | 287.7 |
| 10 | 660.40 | -90.00 | 10.00 | 51.068 | 0.750 | 0.021 | 289.4 | 285.7 | 288.2 | 287.6 |
| 11 | 660.40 | -85.00 | 10.00 | 51.097 | 1.012 | 0.019 | 289.4 | 285.7 | 288.0 | 287.1 |
| 12 | 660.40 | -80.00 | 10.00 | 51.088 | 1.412 | 0.020 | 289.4 | 285.7 | 287.8 | 286.6 |
| 13 | 660.40 | -75.00 | 10.00 | 51.098 | 1.795 | 0.019 | 289.4 | 285.7 | 287.7 | 286.2 |
| 14 | 660.40 | -70.00 | 10.00 | 51.098 | 2.141 | 0.016 | 289.3 | 285.7 | 287.5 | 285.7 |
| 15 | 660.40 | -65.00 | 10.00 | 51.090 | 2.555 | 0.017 | 289.3 | 285.7 | 287.5 | 285.4 |
| 16 | 660.40 | -60.00 | 10.00 | 51.051 | 3.120 | 0.017 | 289.3 | 285.7 | 287.4 | 284.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 660.40 | -55.00 | 10.00 | 51.026 | 3.544 | 0.018 | 289.3 | 285.7 | 287.4 | 284.5 |
| 18 | 660.40 | -50.00 | 10.00 | 51.019 | 4.354 | 0.014 | 289.4 | 285.7 | 287.2 | 283.6 |
| 19 | 660.40 | -45.00 | 10.00 | 51.002 | 4.748 | 0.015 | 289.3 | 285.7 | 287.1 | 283.2 |
| 20 | 660.40 | -40.00 | 10.00 | 51.026 | 5.511 | 0.018 | 289.3 | 285.7 | 287.0 | 282.5 |
| 21 | 660.40 | -35.00 | 10.00 | 51.047 | 6.093 | 0.014 | 289.3 | 285.7 | 287.2 | 282.2 |
| 22 | 660.40 | -30.00 | 10.00 | 51.076 | 6.764 | 0.015 | 289.4 | 285.7 | 287.0 | 281.5 |
| 23 | 660.40 | -25.00 | 10.00 | 51.085 | 7.770 | 0.018 | 289.6 | 285.7 | 287.0 | 280.7 |
| 24 | 660.40 | -20.00 | 10.00 | 51.089 | 8.383 | 0.015 | 289.9 | 285.7 | 286.9 | 280.2 |
| 25 | 660.40 | -15.00 | 10.00 | 51.055 | 8.829 | 0.017 | 290.0 | 285.7 | 286.9 | 279.8 |
| 26 | 660.40 | -10.00 | 10.00 | 51.025 | 9.739 | 0.015 | 290.1 | 285.7 | 286.8 | 279.0 |
| 27 | 660.40 | -5.00 | 10.00 | 51.013 | 10.127 | 0.013 | 290.1 | 285.7 | 286.9 | 278.8 |
| 28 | 660.40 | 0.00 | 10.00 | 50.999 | 10.333 | 0.014 | 290.2 | 285.7 | 286.9 | 278.7 |
| 29 | 660.40 | 5.00 | 10.00 | 50.987 | 10.587 | 0.014 | 290.2 | 285.7 | 286.8 | 278.4 |
| 30 | 660.40 | 10.00 | 10.00 | 50.963 | 10.684 | 0.015 | 289.7 | 285.7 | 286.9 | 278.4 |
| 31 | 660.40 | 15.00 | 10.00 | 50.980 | 10.595 | 0.015 | 289.5 | 285.7 | 286.8 | 278.4 |
| 32 | 660.40 | 20.00 | 10.00 | 51.001 | 10.227 | 0.014 | 289.5 | 285.7 | 286.9 | 278.8 |

File : TAB134T 28-OCT-88
28-OCT-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB

C1 : X/D = 11
C2 : VARIABLE
C3 : OFFSET = -2MM
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.375 kPa

Mean gauged plenum pressure : 51.962 kPa
RMS gauged plenum pressure : 0.274 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 558.80 | -130.00 | -2.00 | 51.696 | 0.031 | 0.015 | 293.3 | 286.8 | 292.5 | 292.5 |
| 3 | 558.80 | -125.00 | -2.00 | 51.678 | 0.023 | 0.015 | 293.6 | 286.8 | 292.9 | 292.9 |
| 4 | 558.80 | -120.00 | -2.00 | 51.695 | 0.060 | 0.013 | 294.0 | 286.8 | 292.4 | 292.3 |
| 5 | 558.80 | -115.00 | -2.00 | 51.691 | 0.050 | 0.013 | 294.3 | 286.8 | 292.5 | 292.5 |
| 6 | 558.80 | -110.00 | -2.00 | 51.692 | 0.140 | 0.014 | 294.3 | 286.8 | 292.1 | 292.0 |
| 7 | 558.80 | -105.00 | -2.00 | 51.676 | 0.199 | 0.013 | 294.1 | 286.8 | 291.8 | 291.6 |
| 8 | 558.80 | -100.00 | -2.00 | 51.677 | 0.348 | 0.014 | 294.4 | 286.8 | 291.6 | 291.3 |
| 9 | 558.80 | -95.00 | -2.00 | 51.705 | 0.580 | 0.013 | 294.2 | 286.9 | 291.7 | 291.2 |
| 10 | 558.80 | -90.00 | -2.00 | 51.705 | 0.830 | 0.014 | 293.7 | 286.8 | 291.3 | 290.6 |
| 11 | 558.80 | -85.00 | -2.00 | 51.677 | 1.155 | 0.013 | 293.5 | 286.8 | 291.0 | 290.0 |
| 12 | 558.80 | -80.00 | -2.00 | 51.700 | 1.614 | 0.014 | 293.3 | 286.9 | 291.0 | 289.6 |
| 13 | 558.80 | -75.00 | -2.00 | 51.700 | 2.166 | 0.014 | 293.3 | 286.8 | 290.7 | 288.9 |
| 14 | 558.80 | -70.00 | -2.00 | 51.686 | 2.595 | 0.013 | 293.2 | 286.8 | 290.5 | 288.3 |
| 15 | 558.80 | -65.00 | -2.00 | 51.685 | 3.228 | 0.012 | 293.2 | 286.8 | 290.4 | 287.7 |
| 16 | 558.80 | -60.00 | -2.00 | 51.695 | 3.942 | 0.012 | 293.2 | 286.8 | 290.3 | 287.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 558.80 | -55.00 | -2.00 | 51.679 | 4.768 | 0.013 | 293.3 | 286.8 | 290.3 | 286.4 |
| 18 | 558.80 | -50.00 | -2.00 | 51.680 | 5.729 | 0.014 | 293.2 | 286.8 | 289.9 | 285.2 |
| 19 | 558.80 | -45.00 | -2.00 | 51.630 | 6.440 | 0.013 | 293.2 | 286.8 | 289.9 | 284.7 |
| 20 | 558.80 | -40.00 | -2.00 | 51.625 | 7.589 | 0.014 | 293.2 | 286.8 | 289.8 | 283.7 |
| 21 | 558.80 | -35.00 | -2.00 | 51.597 | 8.360 | 0.012 | 293.3 | 286.8 | 289.7 | 283.0 |
| 22 | 558.80 | -30.00 | -2.00 | 51.582 | 9.410 | 0.013 | 293.4 | 286.8 | 289.4 | 281.9 |
| 23 | 558.80 | -25.00 | -2.00 | 51.591 | 10.360 | 0.013 | 293.4 | 286.8 | 289.3 | 281.1 |
| 24 | 558.80 | -20.00 | -2.00 | 51.589 | 11.290 | 0.013 | 293.5 | 286.8 | 289.4 | 280.5 |
| 25 | 558.80 | -15.00 | -2.00 | 52.089 | 12.334 | 0.014 | 293.3 | 286.8 | 288.7 | 279.1 |
| 26 | 558.80 | -10.00 | -2.00 | 52.097 | 13.136 | 0.018 | 293.1 | 286.8 | 288.8 | 278.6 |
| 27 | 558.80 | -5.00 | -2.00 | 52.062 | 13.906 | 0.017 | 293.2 | 286.8 | 288.8 | 278.1 |
| 28 | 558.80 | 0.00 | -2.00 | 52.054 | 14.269 | 0.015 | 293.3 | 286.8 | 288.7 | 277.7 |
| 29 | 558.80 | 5.00 | -2.00 | 52.050 | 14.597 | 0.015 | 293.3 | 286.8 | 288.7 | 277.5 |
| 30 | 558.80 | 10.00 | -2.00 | 52.048 | 14.708 | 0.016 | 293.3 | 286.8 | 288.7 | 277.4 |
| 31 | 558.80 | 15.00 | -2.00 | 52.051 | 14.474 | 0.018 | 293.5 | 286.8 | 288.7 | 277.6 |
| 32 | 558.80 | 20.00 | -2.00 | 52.055 | 13.826 | 0.014 | 294.0 | 286.8 | 288.8 | 278.1 |
| 33 | 558.80 | 25.00 | -2.00 | 52.069 | 13.224 | 0.014 | 294.1 | 286.8 | 289.1 | 278.8 |
| 34 | 558.80 | 30.00 | -2.00 | 52.061 | 12.445 | 0.019 | 294.4 | 286.8 | 289.2 | 279.5 |
| 35 | 558.80 | 35.00 | -2.00 | 52.074 | 11.557 | 0.015 | 294.3 | 286.8 | 289.4 | 280.3 |
| 36 | 558.80 | 40.00 | -2.00 | 52.094 | 10.238 | 0.015 | 294.6 | 286.8 | 289.4 | 281.3 |
| 37 | 558.80 | 45.00 | -2.00 | 52.152 | 9.106 | 0.019 | 294.5 | 286.8 | 289.6 | 282.4 |
| 38 | 558.80 | 50.00 | -2.00 | 52.235 | 7.853 | 0.022 | 294.3 | 286.9 | 289.6 | 283.3 |
| 39 | 558.80 | 55.00 | -2.00 | 52.286 | 6.899 | 0.016 | 294.3 | 286.9 | 289.6 | 284.0 |
| 40 | 558.80 | 60.00 | -2.00 | 52.343 | 5.814 | 0.020 | 293.9 | 286.9 | 290.0 | 285.3 |
| 41 | 558.80 | 65.00 | -2.00 | 52.385 | 4.824 | 0.019 | 293.7 | 286.9 | 290.0 | 286.1 |
| 42 | 558.80 | 70.00 | -2.00 | 52.385 | 4.025 | 0.019 | 293.7 | 286.9 | 290.3 | 287.0 |
| 43 | 558.80 | 75.00 | -2.00 | 52.339 | 3.238 | 0.014 | 293.7 | 286.8 | 290.7 | 288.0 |
| 44 | 558.80 | 80.00 | -2.00 | 52.289 | 2.338 | 0.017 | 293.8 | 286.9 | 290.9 | 289.0 |
| 45 | 558.80 | 85.00 | -2.00 | 52.242 | 1.941 | 0.022 | 293.8 | 286.8 | 291.1 | 289.5 |
| 46 | 558.80 | 90.00 | -2.00 | 52.199 | 1.629 | 0.022 | 293.9 | 286.8 | 291.3 | 289.9 |
| 47 | 558.80 | 95.00 | -2.00 | 52.183 | 1.219 | 0.025 | 293.7 | 286.9 | 291.5 | 290.5 |
| 48 | 558.80 | 100.00 | -2.00 | 52.194 | 0.756 | 0.022 | 293.7 | 286.9 | 291.8 | 291.2 |
| 49 | 558.80 | 105.00 | -2.00 | 52.217 | 0.625 | 0.022 | 293.8 | 286.9 | 291.8 | 291.3 |
| 50 | 558.80 | 110.00 | -2.00 | 52.247 | 0.333 | 0.025 | 293.8 | 286.8 | 292.1 | 291.8 |
| 51 | 558.80 | 115.00 | -2.00 | 52.271 | 0.130 | 0.026 | 293.8 | 286.9 | 292.2 | 292.1 |
| 52 | 558.80 | 120.00 | -2.00 | 52.264 | 0.068 | 0.021 | 293.8 | 286.9 | 292.5 | 292.4 |
| 53 | 558.80 | 125.00 | -2.00 | 52.248 | 0.051 | 0.022 | 293.9 | 286.9 | 292.7 | 292.7 |
| 54 | 558.80 | 130.00 | -2.00 | 52.283 | 0.015 | 0.020 | 294.0 | 286.9 | 293.0 | 293.0 |

File : TAB133T 28-OCT-88
28-OCT-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB

C1 : X/D = 11
C2 : OFFSET = 7MM
C3 : VARIABLE
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.408 kPa

Mean gauged plenum pressure : 51.373 kPa
RMS gauged plenum pressure : 0.265 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 558.80 | 7.00 | -100.00 | 50.875 | 0.021 | 0.014 | 293.3 | 287.4 | 291.5 | 291.5 |
| 3 | 558.80 | 7.00 | -97.00 | 50.756 | 0.013 | 0.016 | 293.3 | 287.2 | 291.7 | 291.7 |
| 4 | 558.80 | 7.00 | -94.00 | 50.888 | 0.018 | 0.014 | 293.6 | 287.2 | 291.8 | 291.8 |
| 5 | 558.80 | 7.00 | -91.00 | 51.211 | 0.018 | 0.014 | 294.2 | 287.2 | 291.6 | 291.6 |
| 6 | 558.80 | 7.00 | -88.00 | 51.137 | 0.032 | 0.012 | 294.5 | 287.1 | 292.0 | 292.0 |
| 7 | 558.80 | 7.00 | -85.00 | 51.095 | 0.071 | 0.012 | 294.9 | 287.1 | 292.1 | 292.0 |
| 8 | 558.80 | 7.00 | -82.00 | 51.065 | 0.117 | 0.012 | 295.0 | 287.1 | 291.7 | 291.6 |
| 9 | 558.80 | 7.00 | -79.00 | 51.037 | 0.240 | 0.012 | 295.1 | 287.1 | 291.0 | 290.8 |
| 10 | 558.80 | 7.00 | -76.00 | 51.022 | 0.332 | 0.011 | 295.2 | 287.1 | 291.3 | 291.0 |
| 11 | 558.80 | 7.00 | -73.00 | 51.011 | 0.434 | 0.011 | 295.3 | 287.1 | 291.0 | 290.6 |
| 12 | 558.80 | 7.00 | -70.00 | 50.965 | 0.562 | 0.010 | 294.8 | 287.0 | 291.0 | 290.5 |
| 13 | 558.80 | 7.00 | -67.00 | 50.995 | 0.739 | 0.011 | 294.1 | 287.0 | 290.0 | 289.4 |
| 14 | 558.80 | 7.00 | -64.00 | 50.992 | 0.927 | 0.011 | 293.8 | 286.9 | 289.6 | 288.8 |
| 15 | 558.80 | 7.00 | -61.00 | 51.651 | 1.234 | 0.011 | 293.7 | 287.0 | 289.8 | 288.8 |
| 16 | 558.80 | 7.00 | -58.00 | 51.625 | 1.563 | 0.011 | 293.6 | 286.9 | 289.6 | 288.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 558.80 | 7.00 | -55.00 | 51.626 | 1.967 | 0.011 | 293.4 | 286.9 | 289.0 | 287.4 |
| 18 | 558.80 | 7.00 | -52.00 | 51.610 | 2.337 | 0.011 | 293.3 | 286.9 | 289.0 | 287.1 |
| 19 | 558.80 | 7.00 | -49.00 | 51.593 | 2.849 | 0.011 | 293.1 | 286.9 | 288.6 | 286.3 |
| 20 | 558.80 | 7.00 | -46.00 | 51.565 | 3.442 | 0.011 | 293.0 | 286.8 | 288.4 | 285.6 |
| 21 | 558.80 | 7.00 | -43.00 | 51.561 | 3.915 | 0.011 | 293.0 | 286.8 | 288.4 | 285.2 |
| 22 | 558.80 | 7.00 | -40.00 | 51.561 | 4.482 | 0.011 | 293.0 | 286.8 | 288.3 | 284.6 |
| 23 | 558.80 | 7.00 | -37.00 | 51.580 | 5.317 | 0.011 | 292.9 | 286.8 | 288.1 | 283.8 |
| 24 | 558.80 | 7.00 | -34.00 | 51.597 | 6.069 | 0.011 | 292.8 | 286.8 | 288.1 | 283.2 |
| 25 | 558.80 | 7.00 | -31.00 | 51.588 | 7.030 | 0.012 | 292.7 | 286.8 | 287.7 | 282.1 |
| 26 | 558.80 | 7.00 | -28.00 | 51.614 | 7.961 | 0.012 | 292.7 | 286.8 | 288.0 | 281.7 |
| 27 | 558.80 | 7.00 | -25.00 | 51.588 | 8.860 | 0.012 | 292.7 | 286.8 | 288.1 | 281.1 |
| 28 | 558.80 | 7.00 | -22.00 | 51.594 | 9.898 | 0.012 | 292.8 | 286.7 | 288.1 | 280.3 |
| 29 | 558.80 | 7.00 | -19.00 | 51.573 | 10.991 | 0.012 | 292.8 | 286.7 | 288.1 | 279.5 |
| 30 | 558.80 | 7.00 | -16.00 | 51.569 | 11.805 | 0.012 | 292.7 | 286.7 | 288.3 | 279.1 |
| 31 | 558.80 | 7.00 | -13.00 | 51.557 | 12.684 | 0.012 | 293.0 | 286.7 | 288.3 | 278.5 |
| 32 | 558.80 | 7.00 | -10.00 | 51.520 | 13.404 | 0.012 | 293.4 | 286.7 | 288.5 | 278.1 |
| 33 | 558.80 | 7.00 | -7.00 | 51.472 | 13.948 | 0.012 | 293.7 | 286.7 | 288.5 | 277.8 |
| 34 | 558.80 | 7.00 | -4.00 | 51.463 | 14.354 | 0.013 | 294.1 | 286.7 | 288.4 | 277.4 |
| 35 | 558.80 | 7.00 | -1.00 | 51.467 | 14.364 | 0.013 | 294.1 | 286.7 | 288.3 | 277.3 |
| 36 | 558.80 | 7.00 | 2.00 | 51.461 | 14.342 | 0.014 | 293.9 | 286.7 | 288.2 | 277.2 |
| 37 | 558.80 | 7.00 | 5.00 | 51.469 | 13.831 | 0.013 | 293.8 | 286.6 | 288.2 | 277.6 |
| 38 | 558.80 | 7.00 | 8.00 | 51.460 | 13.061 | 0.013 | 293.7 | 286.7 | 288.1 | 278.0 |
| 39 | 558.80 | 7.00 | 11.00 | 51.450 | 12.428 | 0.014 | 293.5 | 286.7 | 288.0 | 278.4 |
| 40 | 558.80 | 7.00 | 14.00 | 51.462 | 11.381 | 0.019 | 293.1 | 286.7 | 287.7 | 278.8 |
| 41 | 558.80 | 7.00 | 17.00 | 51.458 | 10.424 | 0.015 | 292.8 | 286.7 | 287.7 | 279.5 |
| 42 | 558.80 | 7.00 | 20.00 | 51.493 | 9.556 | 0.020 | 292.4 | 286.7 | 287.5 | 280.0 |

File : TAB143T 4-NOV-88
4-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, -14 DEG

C1 : X/D = 11
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.359 kPa

Mean gauged plenum pressure : 50.718 kPa
RMS gauged plenum pressure : 0.175 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 558.80 | -130.00 | 0.00 | 50.872 | 0.037 | 0.019 | 285.7 | 285.1 | 285.7 | 285.7 |
| 3 | 558.80 | -125.00 | 0.00 | 50.865 | 0.018 | 0.018 | 285.6 | 285.1 | 285.5 | 285.5 |
| 4 | 558.80 | -120.00 | 0.00 | 50.873 | 0.039 | 0.020 | 285.6 | 285.1 | 285.4 | 285.4 |
| 5 | 558.80 | -115.00 | 0.00 | 50.873 | 0.040 | 0.014 | 285.6 | 285.1 | 285.0 | 285.0 |
| 6 | 558.80 | -110.00 | 0.00 | 50.872 | 0.106 | 0.014 | 285.6 | 285.1 | 285.2 | 285.1 |
| 7 | 558.80 | -105.00 | 0.00 | 50.879 | 0.240 | 0.017 | 285.6 | 285.1 | 284.9 | 284.7 |
| 8 | 558.80 | -100.00 | 0.00 | 50.882 | 0.361 | 0.017 | 285.6 | 285.1 | 285.0 | 284.7 |
| 9 | 558.80 | -95.00 | 0.00 | 50.878 | 0.511 | 0.015 | 285.6 | 285.1 | 284.8 | 284.4 |
| 10 | 558.80 | -90.00 | 0.00 | 50.856 | 0.763 | 0.014 | 285.5 | 285.0 | 284.5 | 283.9 |
| 11 | 558.80 | -85.00 | 0.00 | 50.843 | 0.926 | 0.014 | 285.5 | 285.1 | 284.6 | 283.8 |
| 12 | 558.80 | -80.00 | 0.00 | 50.858 | 1.299 | 0.015 | 285.5 | 285.0 | 284.5 | 283.4 |
| 13 | 558.80 | -75.00 | 0.00 | 50.862 | 1.863 | 0.018 | 285.5 | 285.1 | 284.3 | 282.8 |
| 14 | 558.80 | -70.00 | 0.00 | 50.880 | 2.363 | 0.019 | 285.5 | 285.1 | 284.4 | 282.5 |
| 15 | 558.80 | -65.00 | 0.00 | 50.817 | 3.113 | 0.013 | 286.0 | 285.0 | 284.6 | 282.0 |
| 16 | 558.80 | -60.00 | 0.00 | 50.767 | 3.818 | 0.014 | 286.2 | 285.0 | 284.3 | 281.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 558.80 | -55.00 | 0.00 | 50.782 | 4.264 | 0.014 | 286.4 | 285.0 | 284.4 | 280.9 |
| 18 | 558.80 | -50.00 | 0.00 | 50.743 | 5.244 | 0.017 | 286.4 | 285.0 | 284.4 | 280.2 |
| 19 | 558.80 | -45.00 | 0.00 | 50.730 | 6.242 | 0.017 | 286.6 | 285.0 | 284.3 | 279.3 |
| 20 | 558.80 | -40.00 | 0.00 | 50.729 | 7.096 | 0.019 | 286.1 | 285.0 | 284.1 | 278.4 |
| 21 | 558.80 | -35.00 | 0.00 | 50.704 | 8.025 | 0.018 | 285.7 | 285.0 | 284.1 | 277.7 |
| 22 | 558.80 | -30.00 | 0.00 | 50.660 | 9.279 | 0.016 | 285.6 | 285.0 | 284.2 | 276.9 |
| 23 | 558.80 | -25.00 | 0.00 | 50.621 | 10.274 | 0.016 | 285.6 | 285.1 | 284.2 | 276.2 |
| 24 | 558.80 | -20.00 | 0.00 | 50.574 | 11.306 | 0.014 | 285.5 | 285.0 | 284.1 | 275.3 |
| 25 | 558.80 | -15.00 | 0.00 | 50.586 | 12.192 | 0.013 | 285.6 | 285.1 | 284.2 | 274.8 |
| 26 | 558.80 | -10.00 | 0.00 | 50.586 | 12.925 | 0.014 | 285.5 | 285.1 | 284.2 | 274.2 |
| 27 | 558.80 | -5.00 | 0.00 | 50.625 | 13.408 | 0.016 | 285.5 | 285.1 | 284.1 | 273.8 |
| 28 | 558.80 | 0.00 | 0.00 | 50.633 | 13.787 | 0.017 | 285.5 | 285.0 | 284.2 | 273.6 |
| 29 | 558.80 | 5.00 | 0.00 | 50.368 | 14.163 | 0.016 | 285.5 | 285.1 | 284.3 | 273.5 |
| 30 | 558.80 | 10.00 | 0.00 | 50.375 | 14.042 | 0.018 | 285.5 | 285.1 | 284.3 | 273.5 |
| 31 | 558.80 | 15.00 | 0.00 | 50.398 | 13.576 | 0.015 | 285.5 | 285.0 | 284.3 | 273.9 |
| 32 | 558.80 | 20.00 | 0.00 | 50.388 | 13.053 | 0.015 | 285.6 | 285.1 | 284.3 | 274.2 |

File : TAB147T

14-NOV-88
14-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Baseline

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.375 kPa

Mean gauged plenum pressure : 51.604 kPa
RMS gauged plenum pressure : 0.132 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.411 | 0.433 | 0.012 | 294.8 | 285.6 | 292.2 | 291.8 |
| 3 | 457.20 | -105.00 | 0.00 | 51.401 | 0.795 | 0.017 | 294.8 | 285.6 | 292.1 | 291.4 |
| 4 | 457.20 | -100.00 | 0.00 | 51.656 | 1.242 | 0.013 | 295.1 | 285.6 | 291.5 | 290.5 |
| 5 | 457.20 | -95.00 | 0.00 | 51.641 | 1.706 | 0.014 | 295.3 | 285.6 | 291.5 | 290.1 |
| 6 | 457.20 | -90.00 | 0.00 | 51.619 | 2.199 | 0.015 | 295.6 | 285.6 | 291.3 | 289.5 |
| 7 | 457.20 | -85.00 | 0.00 | 51.582 | 3.095 | 0.013 | 295.5 | 285.6 | 290.8 | 288.2 |
| 8 | 457.20 | -80.00 | 0.00 | 51.576 | 3.800 | 0.015 | 295.5 | 285.6 | 290.5 | 287.4 |
| 9 | 457.20 | -75.00 | 0.00 | 51.580 | 4.771 | 0.013 | 295.4 | 285.6 | 290.4 | 286.5 |
| 10 | 457.20 | -70.00 | 0.00 | 51.849 | 5.737 | 0.014 | 295.0 | 285.5 | 289.8 | 285.1 |
| 11 | 457.20 | -65.00 | 0.00 | 51.845 | 6.979 | 0.013 | 294.9 | 285.5 | 289.5 | 283.9 |
| 12 | 457.20 | -60.00 | 0.00 | 51.856 | 8.025 | 0.012 | 294.8 | 285.6 | 289.3 | 282.9 |
| 13 | 457.20 | -55.00 | 0.00 | 51.871 | 9.498 | 0.013 | 294.6 | 285.6 | 289.0 | 281.5 |
| 14 | 457.20 | -50.00 | 0.00 | 51.851 | 10.555 | 0.013 | 294.5 | 285.5 | 288.6 | 280.3 |
| 15 | 457.20 | -45.00 | 0.00 | 51.819 | 12.173 | 0.013 | 294.4 | 285.5 | 288.4 | 278.9 |
| 16 | 457.20 | -40.00 | 0.00 | 51.799 | 13.490 | 0.014 | 294.4 | 285.5 | 287.9 | 277.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 51.744 | 15.229 | 0.012 | 294.4 | 285.5 | 287.6 | 276.0 |
| 18 | 457.20 | -30.00 | 0.00 | 51.724 | 16.582 | 0.012 | 294.4 | 285.5 | 287.5 | 275.0 |
| 19 | 457.20 | -25.00 | 0.00 | 51.717 | 17.894 | 0.012 | 294.4 | 285.5 | 287.3 | 273.9 |
| 20 | 457.20 | -20.00 | 0.00 | 51.666 | 19.044 | 0.012 | 294.4 | 285.5 | 287.1 | 272.9 |
| 21 | 457.20 | -15.00 | 0.00 | 51.631 | 19.626 | 0.012 | 294.4 | 285.5 | 287.0 | 272.4 |
| 22 | 457.20 | -10.00 | 0.00 | 51.580 | 20.067 | 0.012 | 294.3 | 285.5 | 287.0 | 272.1 |
| 23 | 457.20 | -5.00 | 0.00 | 51.570 | 20.063 | 0.012 | 294.2 | 285.5 | 286.8 | 272.0 |
| 24 | 457.20 | 0.00 | 0.00 | 51.556 | 19.682 | 0.012 | 294.2 | 285.5 | 286.9 | 272.3 |
| 25 | 457.20 | 5.00 | 0.00 | 51.540 | 19.158 | 0.012 | 294.2 | 285.5 | 287.1 | 272.8 |
| 26 | 457.20 | 10.00 | 0.00 | 51.567 | 17.881 | 0.013 | 294.3 | 285.5 | 287.3 | 273.9 |
| 27 | 457.20 | 15.00 | 0.00 | 51.610 | 16.499 | 0.012 | 294.2 | 285.5 | 287.8 | 275.3 |
| 28 | 457.20 | 20.00 | 0.00 | 51.672 | 14.489 | 0.012 | 294.2 | 285.5 | 287.9 | 276.8 |
| 29 | 457.20 | 25.00 | 0.00 | 51.673 | 12.898 | 0.012 | 294.2 | 285.5 | 288.1 | 278.1 |
| 30 | 457.20 | 30.00 | 0.00 | 51.614 | 10.604 | 0.012 | 294.2 | 285.5 | 288.4 | 280.1 |
| 31 | 457.20 | 35.00 | 0.00 | 51.538 | 8.908 | 0.012 | 294.8 | 285.5 | 288.7 | 281.6 |
| 32 | 457.20 | 40.00 | 0.00 | 51.531 | 7.164 | 0.012 | 295.2 | 285.5 | 288.9 | 283.1 |
| 33 | 457.20 | 45.00 | 0.00 | 51.548 | 5.663 | 0.012 | 295.2 | 285.4 | 289.4 | 284.8 |
| 34 | 457.20 | 50.00 | 0.00 | 51.580 | 4.638 | 0.012 | 295.5 | 285.4 | 289.7 | 285.9 |
| 35 | 457.20 | 55.00 | 0.00 | 51.571 | 3.589 | 0.012 | 295.4 | 285.4 | 289.8 | 286.8 |
| 36 | 457.20 | 60.00 | 0.00 | 51.540 | 2.874 | 0.012 | 295.3 | 285.4 | 290.3 | 287.9 |
| 37 | 457.20 | 65.00 | 0.00 | 51.515 | 2.227 | 0.012 | 295.0 | 285.4 | 290.7 | 288.8 |
| 38 | 457.20 | 70.00 | 0.00 | 51.491 | 1.531 | 0.012 | 294.6 | 285.4 | 291.2 | 289.9 |
| 39 | 457.20 | 75.00 | 0.00 | 51.478 | 1.308 | 0.012 | 294.4 | 285.4 | 291.1 | 290.0 |
| 40 | 457.20 | 80.00 | 0.00 | 51.440 | 0.831 | 0.012 | 294.3 | 285.4 | 291.3 | 290.6 |
| 41 | 457.20 | 85.00 | 0.00 | 51.386 | 0.543 | 0.012 | 294.1 | 285.3 | 291.7 | 291.2 |
| 42 | 457.20 | 90.00 | 0.00 | 51.413 | 0.358 | 0.012 | 294.1 | 285.4 | 291.7 | 291.4 |
| 43 | 457.20 | 95.00 | 0.00 | 51.466 | 0.147 | 0.012 | 294.1 | 285.3 | 291.9 | 291.8 |
| 44 | 457.20 | 100.00 | 0.00 | 51.534 | 0.099 | 0.012 | 294.1 | 285.4 | 291.8 | 291.7 |
| 45 | 457.20 | 105.00 | 0.00 | 51.570 | 0.044 | 0.012 | 294.2 | 285.3 | 292.4 | 292.4 |
| 46 | 457.20 | 110.00 | 0.00 | 51.606 | 0.014 | 0.012 | 294.2 | 285.3 | 292.3 | 292.3 |

File : TAB146T

14-NOV-88
14-NOV-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Baseline

C1 : X/D = 9
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.375 kPa

Mean gauged plenum pressure : 51.637 kPa
RMS gauged plenum pressure : 0.355 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.479 | 0.470 | 0.012 | 294.9 | 286.2 | 291.2 | 290.8 |
| 3 | 457.20 | 0.00 | -58.00 | 51.509 | 0.469 | 0.012 | 294.9 | 286.1 | 291.3 | 290.9 |
| 4 | 457.20 | 0.00 | -56.00 | 51.499 | 0.677 | 0.012 | 294.9 | 286.1 | 291.0 | 290.4 |
| 5 | 457.20 | 0.00 | -54.00 | 51.524 | 0.869 | 0.012 | 295.2 | 286.1 | 290.2 | 289.5 |
| 6 | 457.20 | 0.00 | -52.00 | 51.514 | 1.057 | 0.013 | 295.1 | 286.0 | 290.2 | 289.3 |
| 7 | 457.20 | 0.00 | -50.00 | 51.482 | 1.277 | 0.012 | 295.0 | 285.9 | 289.9 | 288.8 |
| 8 | 457.20 | 0.00 | -48.00 | 51.444 | 1.561 | 0.012 | 295.4 | 285.9 | 289.3 | 288.0 |
| 9 | 457.20 | 0.00 | -46.00 | 51.440 | 1.918 | 0.012 | 295.7 | 285.8 | 289.0 | 287.4 |
| 10 | 457.20 | 0.00 | -44.00 | 51.407 | 2.255 | 0.013 | 295.7 | 285.8 | 288.5 | 286.6 |
| 11 | 457.20 | 0.00 | -42.00 | 51.420 | 2.697 | 0.014 | 295.6 | 285.7 | 289.1 | 286.9 |
| 12 | 457.20 | 0.00 | -40.00 | 51.453 | 3.231 | 0.013 | 295.5 | 285.7 | 288.4 | 285.7 |
| 13 | 457.20 | 0.00 | -38.00 | 51.483 | 3.619 | 0.012 | 295.4 | 285.7 | 288.4 | 285.4 |
| 14 | 457.20 | 0.00 | -36.00 | 51.675 | 4.243 | 0.012 | 295.5 | 285.7 | 288.0 | 284.5 |
| 15 | 457.20 | 0.00 | -34.00 | 52.209 | 4.849 | 0.012 | 295.4 | 285.7 | 287.9 | 284.0 |
| 16 | 457.20 | 0.00 | -32.00 | 52.223 | 5.699 | 0.014 | 294.7 | 285.7 | 287.4 | 282.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -30.00 | 52.244 | 6.463 | 0.014 | 294.3 | 285.7 | 287.5 | 282.3 |
| 18 | 457.20 | 0.00 | -28.00 | 52.314 | 7.124 | 0.014 | 294.2 | 285.7 | 287.4 | 281.7 |
| 19 | 457.20 | 0.00 | -26.00 | 52.288 | 8.160 | 0.016 | 294.3 | 285.7 | 287.3 | 280.8 |
| 20 | 457.20 | 0.00 | -24.00 | 52.238 | 9.171 | 0.013 | 294.3 | 285.7 | 287.1 | 279.9 |
| 21 | 457.20 | 0.00 | -22.00 | 51.234 | 10.035 | 0.016 | 294.3 | 285.7 | 287.0 | 279.1 |
| 22 | 457.20 | 0.00 | -20.00 | 51.184 | 11.127 | 0.013 | 294.4 | 285.7 | 287.3 | 278.6 |
| 23 | 457.20 | 0.00 | -18.00 | 51.204 | 12.164 | 0.016 | 294.2 | 285.7 | 287.2 | 277.8 |
| 24 | 457.20 | 0.00 | -16.00 | 52.387 | 13.509 | 0.014 | 294.3 | 285.8 | 287.2 | 276.8 |
| 25 | 457.20 | 0.00 | -14.00 | 51.522 | 14.428 | 0.016 | 294.4 | 285.8 | 287.2 | 276.2 |
| 26 | 457.20 | 0.00 | -12.00 | 51.509 | 15.673 | 0.022 | 294.5 | 285.8 | 287.2 | 275.3 |
| 27 | 457.20 | 0.00 | -10.00 | 51.527 | 16.711 | 0.018 | 294.4 | 285.8 | 287.3 | 274.7 |
| 28 | 457.20 | 0.00 | -8.00 | 51.546 | 17.627 | 0.022 | 294.5 | 285.8 | 287.3 | 274.1 |
| 29 | 457.20 | 0.00 | -6.00 | 51.542 | 18.307 | 0.022 | 294.3 | 285.8 | 287.3 | 273.6 |
| 30 | 457.20 | 0.00 | -4.00 | 51.496 | 19.101 | 0.023 | 294.5 | 285.8 | 287.3 | 273.1 |
| 31 | 457.20 | 0.00 | -2.00 | 51.505 | 19.398 | 0.023 | 294.5 | 285.8 | 287.5 | 273.1 |
| 32 | 457.20 | 0.00 | 0.00 | 51.443 | 19.581 | 0.025 | 294.7 | 285.8 | 287.4 | 272.8 |
| 33 | 457.20 | 0.00 | 2.00 | 51.389 | 19.437 | 0.016 | 295.1 | 285.8 | 287.2 | 272.8 |
| 34 | 457.20 | 0.00 | 4.00 | 51.378 | 19.380 | 0.019 | 295.4 | 285.8 | 287.0 | 272.6 |
| 35 | 457.20 | 0.00 | 6.00 | 51.361 | 18.873 | 0.021 | 295.7 | 285.8 | 287.1 | 273.0 |
| 36 | 457.20 | 0.00 | 8.00 | 51.370 | 18.171 | 0.017 | 295.9 | 285.8 | 286.9 | 273.3 |
| 37 | 457.20 | 0.00 | 10.00 | 52.181 | 17.654 | 0.016 | 295.3 | 285.7 | 286.9 | 273.7 |

File : TAB165T

6-DEC-88
18-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.713 kPa

Mean gauged plenum pressure : 51.380 kPa
RMS gauged plenum pressure : 0.527 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.384 | 0.136 | 0.017 | 290.4 | 285.2 | 288.8 | 288.7 |
| 3 | 457.20 | -105.00 | 0.00 | 51.388 | 0.178 | 0.020 | 290.4 | 285.1 | 288.2 | 288.1 |
| 4 | 457.20 | -100.00 | 0.00 | 51.391 | 0.198 | 0.022 | 290.0 | 285.1 | 287.9 | 287.7 |
| 5 | 457.20 | -95.00 | 0.00 | 51.347 | 0.404 | 0.017 | 290.1 | 285.1 | 288.1 | 287.8 |
| 6 | 457.20 | -90.00 | 0.00 | 51.324 | 0.914 | 0.018 | 290.1 | 285.1 | 288.1 | 287.3 |
| 7 | 457.20 | -85.00 | 0.00 | 51.346 | 1.196 | 0.015 | 290.2 | 285.1 | 287.8 | 286.8 |
| 8 | 457.20 | -80.00 | 0.00 | 51.348 | 1.495 | 0.017 | 290.2 | 285.1 | 287.5 | 286.3 |
| 9 | 457.20 | -75.00 | 0.00 | 51.374 | 2.408 | 0.015 | 290.3 | 285.2 | 287.4 | 285.4 |
| 10 | 457.20 | -70.00 | 0.00 | 51.409 | 2.852 | 0.017 | 290.3 | 285.1 | 287.2 | 284.9 |
| 11 | 457.20 | -65.00 | 0.00 | 51.449 | 4.021 | 0.015 | 290.4 | 285.1 | 286.7 | 283.4 |
| 12 | 457.20 | -60.00 | 0.00 | 51.639 | 4.640 | 0.015 | 290.5 | 285.1 | 286.9 | 283.2 |
| 13 | 457.20 | -55.00 | 0.00 | 51.707 | 5.672 | 0.016 | 290.6 | 285.2 | 286.9 | 282.3 |
| 14 | 457.20 | -50.00 | 0.00 | 51.745 | 7.042 | 0.021 | 290.5 | 285.1 | 286.0 | 280.4 |
| 15 | 457.20 | -45.00 | 0.00 | 51.697 | 8.702 | 0.017 | 290.4 | 285.1 | 286.1 | 279.3 |
| 16 | 457.20 | -40.00 | 0.00 | 51.702 | 10.257 | 0.016 | 290.6 | 285.1 | 286.1 | 278.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 51.813 | 11.837 | 0.015 | 291.1 | 285.1 | 285.7 | 276.6 |
| 18 | 457.20 | -30.00 | 0.00 | 51.918 | 13.331 | 0.016 | 291.3 | 285.1 | 285.8 | 275.6 |
| 19 | 457.20 | -25.00 | 0.00 | 51.903 | 15.251 | 0.017 | 291.1 | 285.1 | 285.3 | 273.8 |
| 20 | 457.20 | -20.00 | 0.00 | 51.978 | 16.555 | 0.014 | 291.3 | 285.1 | 285.6 | 273.2 |
| 21 | 457.20 | -15.00 | 0.00 | 50.882 | 17.357 | 0.016 | 291.0 | 285.1 | 285.4 | 272.5 |
| 22 | 457.20 | -10.00 | 0.00 | 49.756 | 17.939 | 0.014 | 290.7 | 285.0 | 285.1 | 271.8 |
| 23 | 457.20 | -5.00 | 0.00 | 49.250 | 18.169 | 0.021 | 290.5 | 285.1 | 285.0 | 271.5 |
| 24 | 457.20 | 0.00 | 0.00 | 50.206 | 19.259 | 0.020 | 290.4 | 285.2 | 285.3 | 271.1 |
| 25 | 457.20 | 5.00 | 0.00 | 52.449 | 20.010 | 0.016 | 290.3 | 285.2 | 285.1 | 270.4 |
| 26 | 457.20 | 10.00 | 0.00 | 51.752 | 19.277 | 0.018 | 290.3 | 285.2 | 285.2 | 271.0 |
| 27 | 457.20 | 15.00 | 0.00 | 51.265 | 18.278 | 0.014 | 290.2 | 285.1 | 285.3 | 271.8 |
| 28 | 457.20 | 20.00 | 0.00 | 51.541 | 17.082 | 0.014 | 290.3 | 285.2 | 285.5 | 272.7 |
| 29 | 457.20 | 25.00 | 0.00 | 51.498 | 15.346 | 0.014 | 290.5 | 285.1 | 285.5 | 273.9 |
| 30 | 457.20 | 30.00 | 0.00 | 51.439 | 13.537 | 0.015 | 290.5 | 285.1 | 285.7 | 275.4 |
| 31 | 457.20 | 35.00 | 0.00 | 51.371 | 11.182 | 0.020 | 290.6 | 285.1 | 285.8 | 277.2 |
| 32 | 457.20 | 40.00 | 0.00 | 51.342 | 9.257 | 0.019 | 290.7 | 285.1 | 286.0 | 278.8 |
| 33 | 457.20 | 45.00 | 0.00 | 51.325 | 7.278 | 0.019 | 290.7 | 285.1 | 286.2 | 280.4 |
| 34 | 457.20 | 50.00 | 0.00 | 51.241 | 5.594 | 0.023 | 290.6 | 285.1 | 286.4 | 281.9 |
| 35 | 457.20 | 55.00 | 0.00 | 51.149 | 4.255 | 0.019 | 290.6 | 285.1 | 286.6 | 283.2 |
| 36 | 457.20 | 60.00 | 0.00 | 51.273 | 3.123 | 0.022 | 290.7 | 285.1 | 286.7 | 284.2 |
| 37 | 457.20 | 65.00 | 0.00 | 51.252 | 2.376 | 0.017 | 290.7 | 285.1 | 287.1 | 285.2 |
| 38 | 457.20 | 70.00 | 0.00 | 51.225 | 1.908 | 0.021 | 290.9 | 285.2 | 287.8 | 286.2 |
| 39 | 457.20 | 75.00 | 0.00 | 51.222 | 1.496 | 0.020 | 290.8 | 285.1 | 287.9 | 286.7 |
| 40 | 457.20 | 80.00 | 0.00 | 51.182 | 0.651 | 0.022 | 290.8 | 285.1 | 288.1 | 287.6 |
| 41 | 457.20 | 85.00 | 0.00 | 51.134 | 0.526 | 0.016 | 291.0 | 285.1 | 288.3 | 287.9 |
| 42 | 457.20 | 90.00 | 0.00 | 51.156 | 0.284 | 0.015 | 290.9 | 285.1 | 288.5 | 288.3 |
| 43 | 457.20 | 95.00 | 0.00 | 51.772 | 0.192 | 0.016 | 291.0 | 285.1 | 288.6 | 288.4 |
| 44 | 457.20 | 100.00 | 0.00 | 51.714 | 0.061 | 0.017 | 290.8 | 285.1 | 288.6 | 288.5 |
| 45 | 457.20 | 105.00 | 0.00 | 51.691 | 0.064 | 0.018 | 290.8 | 285.1 | 288.9 | 288.8 |
| 46 | 457.20 | 110.00 | 0.00 | 51.731 | 0.014 | 0.017 | 290.5 | 285.1 | 289.3 | 289.3 |

File : TAB130T 27-OCT-88
27-OCT-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
X/D = 7, DRPTAB

C1 : AXIAL
C2 : HORIZONTAL
C3 : -1MM OFFSET
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.171 kPa

Mean gauged plenum pressure : 51.124 kPa
RMS gauged plenum pressure : 0.254 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | -110.00 | -1.00 | 51.568 | 0.034 | 0.012 | 294.4 | 287.3 | 292.6 | 292.6 |
| 3 | 355.60 | -105.00 | -1.00 | 51.459 | 0.050 | 0.012 | 294.2 | 287.2 | 292.2 | 292.2 |
| 4 | 355.60 | -100.00 | -1.00 | 51.405 | 0.113 | 0.013 | 294.1 | 287.2 | 292.2 | 292.1 |
| 5 | 355.60 | -95.00 | -1.00 | 51.385 | 0.307 | 0.013 | 294.1 | 287.2 | 291.6 | 291.3 |
| 6 | 355.60 | -90.00 | -1.00 | 51.358 | 0.516 | 0.013 | 293.8 | 287.1 | 291.3 | 290.9 |
| 7 | 355.60 | -85.00 | -1.00 | 51.297 | 0.973 | 0.013 | 293.8 | 287.1 | 290.9 | 290.1 |
| 8 | 355.60 | -80.00 | -1.00 | 51.273 | 1.464 | 0.012 | 293.7 | 287.1 | 291.0 | 289.8 |
| 9 | 355.60 | -75.00 | -1.00 | 51.260 | 2.276 | 0.012 | 293.8 | 287.1 | 290.6 | 288.7 |
| 10 | 355.60 | -70.00 | -1.00 | 51.273 | 3.159 | 0.012 | 293.7 | 287.1 | 290.3 | 287.7 |
| 11 | 355.60 | -65.00 | -1.00 | 51.242 | 4.324 | 0.013 | 293.8 | 287.1 | 290.0 | 286.4 |
| 12 | 355.60 | -60.00 | -1.00 | 51.222 | 5.653 | 0.012 | 294.4 | 287.1 | 289.7 | 285.1 |
| 13 | 355.60 | -55.00 | -1.00 | 51.092 | 7.038 | 0.012 | 294.9 | 287.1 | 289.8 | 284.1 |
| 14 | 355.60 | -50.00 | -1.00 | 50.843 | 8.610 | 0.012 | 295.1 | 287.1 | 289.0 | 282.1 |
| 15 | 355.60 | -45.00 | -1.00 | 50.840 | 10.350 | 0.012 | 295.3 | 287.1 | 289.2 | 281.0 |
| 16 | 355.60 | -40.00 | -1.00 | 50.804 | 12.378 | 0.012 | 295.4 | 287.2 | 288.5 | 278.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 355.60 | -35.00 | -1.00 | 50.772 | 14.485 | 0.012 | 295.4 | 287.1 | 288.3 | 277.2 |
| 18 | 355.60 | -30.00 | -1.00 | 51.299 | 16.730 | 0.012 | 295.4 | 287.1 | 288.1 | 275.4 |
| 19 | 355.60 | -25.00 | -1.00 | 51.253 | 19.118 | 0.012 | 295.5 | 287.2 | 287.7 | 273.4 |
| 20 | 355.60 | -20.00 | -1.00 | 51.231 | 21.386 | 0.013 | 295.0 | 287.1 | 287.0 | 271.3 |
| 21 | 355.60 | -15.00 | -1.00 | 51.234 | 23.486 | 0.013 | 294.7 | 287.1 | 286.9 | 269.8 |
| 22 | 355.60 | -10.00 | -1.00 | 51.220 | 25.499 | 0.014 | 294.4 | 287.1 | 286.4 | 268.1 |
| 23 | 355.60 | -5.00 | -1.00 | 51.219 | 26.790 | 0.016 | 294.3 | 287.2 | 286.2 | 267.1 |
| 24 | 355.60 | 0.00 | -1.00 | 51.247 | 27.691 | 0.014 | 294.1 | 287.1 | 286.0 | 266.4 |
| 25 | 355.60 | 5.00 | -1.00 | 51.246 | 27.886 | 0.015 | 294.1 | 287.2 | 286.2 | 266.4 |
| 26 | 355.60 | 10.00 | -1.00 | 51.214 | 27.694 | 0.012 | 294.4 | 287.2 | 286.1 | 266.5 |
| 27 | 355.60 | 15.00 | -1.00 | 51.203 | 27.495 | 0.013 | 294.4 | 287.2 | 286.2 | 266.7 |
| 28 | 355.60 | 20.00 | -1.00 | 51.205 | 26.404 | 0.016 | 294.3 | 287.2 | 286.5 | 267.6 |
| 29 | 355.60 | 25.00 | -1.00 | 51.113 | 24.548 | 0.015 | 294.3 | 287.2 | 286.9 | 269.1 |
| 30 | 355.60 | 30.00 | -1.00 | 50.956 | 21.573 | 0.014 | 294.4 | 287.2 | 287.2 | 271.3 |
| 31 | 355.60 | 35.00 | -1.00 | 50.967 | 18.220 | 0.014 | 294.2 | 287.2 | 287.6 | 273.9 |
| 32 | 355.60 | 40.00 | -1.00 | 50.791 | 14.800 | 0.015 | 294.2 | 287.2 | 287.8 | 276.5 |
| 33 | 355.60 | 45.00 | -1.00 | 50.771 | 12.033 | 0.015 | 294.0 | 287.2 | 288.1 | 278.7 |
| 34 | 355.60 | 50.00 | -1.00 | 50.605 | 9.391 | 0.014 | 294.2 | 287.2 | 288.3 | 280.9 |
| 35 | 355.60 | 55.00 | -1.00 | 50.582 | 7.145 | 0.017 | 294.2 | 287.2 | 289.1 | 283.3 |
| 36 | 355.60 | 60.00 | -1.00 | 50.718 | 5.680 | 0.019 | 294.2 | 287.2 | 290.3 | 285.7 |
| 37 | 355.60 | 65.00 | -1.00 | 51.282 | 4.609 | 0.019 | 294.4 | 287.2 | 290.0 | 286.2 |
| 38 | 355.60 | 70.00 | -1.00 | 51.273 | 3.599 | 0.013 | 295.0 | 287.2 | 290.1 | 287.1 |
| 39 | 355.60 | 75.00 | -1.00 | 51.266 | 2.755 | 0.013 | 295.3 | 287.1 | 290.6 | 288.3 |
| 40 | 355.60 | 80.00 | -1.00 | 51.264 | 2.078 | 0.013 | 295.7 | 287.2 | 290.7 | 289.0 |
| 41 | 355.60 | 85.00 | -1.00 | 51.274 | 1.122 | 0.016 | 295.8 | 287.1 | 291.4 | 290.5 |
| 42 | 355.60 | 90.00 | -1.00 | 51.110 | 0.779 | 0.015 | 295.7 | 287.1 | 291.5 | 290.8 |
| 43 | 355.60 | 95.00 | -1.00 | 51.069 | 0.506 | 0.015 | 295.8 | 287.1 | 291.6 | 291.2 |
| 44 | 355.60 | 100.00 | -1.00 | 50.989 | 0.166 | 0.014 | 295.8 | 287.1 | 291.6 | 291.5 |
| 45 | 355.60 | 105.00 | -1.00 | 50.990 | 0.156 | 0.014 | 295.7 | 287.1 | 292.4 | 292.3 |
| 46 | 355.60 | 110.00 | -1.00 | 50.899 | 0.016 | 0.014 | 295.1 | 287.1 | 292.5 | 292.5 |

File : TAB129T

27-OCT-88
27-OCT-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
X/D = 7, DRPTAB

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.307 kPa

Mean gauged plenum pressure : 51.356 kPa
RMS gauged plenum pressure : 0.323 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | 0.00 | -60.00 | 50.829 | 0.013 | 0.012 | 291.7 | 286.3 | 289.3 | 289.3 |
| 3 | 355.60 | 0.00 | -58.00 | 50.747 | 0.013 | 0.014 | 291.5 | 286.3 | 289.1 | 289.1 |
| 4 | 355.60 | 0.00 | -56.00 | 51.401 | 0.031 | 0.013 | 291.4 | 286.4 | 288.5 | 288.5 |
| 5 | 355.60 | 0.00 | -54.00 | 51.020 | 0.100 | 0.012 | 291.3 | 286.3 | 288.4 | 288.3 |
| 6 | 355.60 | 0.00 | -52.00 | 51.351 | 0.157 | 0.012 | 291.1 | 286.4 | 288.1 | 288.0 |
| 7 | 355.60 | 0.00 | -50.00 | 51.170 | 0.295 | 0.012 | 291.2 | 286.4 | 287.5 | 287.3 |
| 8 | 355.60 | 0.00 | -48.00 | 51.168 | 0.458 | 0.011 | 291.3 | 286.5 | 287.7 | 287.3 |
| 9 | 355.60 | 0.00 | -46.00 | 51.191 | 0.713 | 0.012 | 291.0 | 286.5 | 287.1 | 286.5 |
| 10 | 355.60 | 0.00 | -44.00 | 51.232 | 0.976 | 0.012 | 291.0 | 286.5 | 286.9 | 286.1 |
| 11 | 355.60 | 0.00 | -42.00 | 51.547 | 1.341 | 0.012 | 290.6 | 286.5 | 286.4 | 285.3 |
| 12 | 355.60 | 0.00 | -40.00 | 51.548 | 1.876 | 0.012 | 290.6 | 286.5 | 286.3 | 284.8 |
| 13 | 355.60 | 0.00 | -38.00 | 51.553 | 2.358 | 0.012 | 291.4 | 286.5 | 286.0 | 284.1 |
| 14 | 355.60 | 0.00 | -36.00 | 51.555 | 3.181 | 0.011 | 291.8 | 286.5 | 286.1 | 283.5 |
| 15 | 355.60 | 0.00 | -34.00 | 51.565 | 3.721 | 0.011 | 292.4 | 286.5 | 286.2 | 283.2 |
| 16 | 355.60 | 0.00 | -32.00 | 51.570 | 4.714 | 0.011 | 292.7 | 286.6 | 285.7 | 281.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 355.60 | 0.00 | -30.00 | 51.564 | 5.656 | 0.012 | 293.0 | 286.6 | 285.6 | 281.1 |
| 18 | 355.60 | 0.00 | -28.00 | 51.570 | 6.819 | 0.012 | 293.0 | 286.6 | 285.4 | 280.0 |
| 19 | 355.60 | 0.00 | -26.00 | 51.561 | 8.123 | 0.011 | 292.7 | 286.6 | 285.0 | 278.6 |
| 20 | 355.60 | 0.00 | -24.00 | 51.544 | 9.527 | 0.012 | 292.2 | 286.7 | 285.1 | 277.7 |
| 21 | 355.60 | 0.00 | -22.00 | 51.858 | 11.197 | 0.012 | 291.9 | 286.7 | 285.1 | 276.4 |
| 22 | 355.60 | 0.00 | -20.00 | 51.826 | 13.083 | 0.012 | 291.8 | 286.6 | 284.8 | 274.8 |
| 23 | 355.60 | 0.00 | -18.00 | 51.828 | 14.767 | 0.012 | 291.8 | 286.7 | 285.1 | 273.9 |
| 24 | 355.60 | 0.00 | -16.00 | 51.819 | 16.951 | 0.011 | 292.1 | 286.7 | 284.9 | 272.2 |
| 25 | 355.60 | 0.00 | -14.00 | 51.791 | 19.059 | 0.011 | 292.1 | 286.7 | 285.2 | 271.1 |
| 26 | 355.60 | 0.00 | -12.00 | 51.806 | 21.356 | 0.012 | 292.2 | 286.7 | 284.8 | 269.2 |
| 27 | 355.60 | 0.00 | -10.00 | 51.790 | 23.122 | 0.012 | 292.1 | 286.7 | 285.0 | 268.3 |
| 28 | 355.60 | 0.00 | -8.00 | 51.069 | 24.540 | 0.012 | 292.2 | 286.7 | 285.4 | 267.8 |
| 29 | 355.60 | 0.00 | -6.00 | 51.087 | 26.038 | 0.012 | 291.9 | 286.7 | 285.3 | 266.7 |
| 30 | 355.60 | 0.00 | -4.00 | 51.095 | 26.968 | 0.012 | 291.5 | 286.6 | 285.0 | 265.9 |
| 31 | 355.60 | 0.00 | -2.00 | 51.076 | 27.580 | 0.012 | 291.4 | 286.7 | 284.9 | 265.4 |
| 32 | 355.60 | 0.00 | 0.00 | 51.076 | 27.416 | 0.012 | 291.6 | 286.7 | 285.2 | 265.8 |
| 33 | 355.60 | 0.00 | 2.00 | 51.082 | 26.837 | 0.012 | 291.7 | 286.7 | 285.1 | 266.1 |
| 34 | 355.60 | 0.00 | 4.00 | 51.123 | 25.941 | 0.012 | 291.7 | 286.7 | 284.7 | 266.2 |
| 35 | 355.60 | 0.00 | 6.00 | 51.093 | 24.652 | 0.012 | 291.8 | 286.7 | 284.9 | 267.2 |
| 36 | 355.60 | 0.00 | 8.00 | 51.134 | 23.055 | 0.012 | 291.8 | 286.7 | 284.8 | 268.1 |
| 37 | 355.60 | 0.00 | 10.00 | 51.137 | 21.417 | 0.012 | 291.8 | 286.7 | 284.4 | 268.8 |

File : TAB144T

4-NOV-88
4-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, -14 DEG.

C1 : X/D = 7
C2 : DIAGONAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.223 kPa

Mean gauged plenum pressure : 50.833 kPa
RMS gauged plenum pressure : 0.049 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | -110.00 | 0.00 | 50.827 | 0.013 | 0.012 | 289.0 | 285.3 | 288.0 | 288.0 |
| 3 | 355.60 | -106.00 | 0.00 | 50.821 | 0.015 | 0.012 | 289.1 | 285.3 | 287.8 | 287.8 |
| 4 | 355.60 | -102.00 | 0.00 | 50.810 | 0.021 | 0.012 | 289.3 | 285.3 | 287.8 | 287.8 |
| 5 | 355.60 | -98.00 | 0.00 | 50.795 | 0.038 | 0.012 | 289.3 | 285.3 | 287.4 | 287.4 |
| 6 | 355.60 | -94.00 | 0.00 | 50.805 | 0.135 | 0.013 | 288.7 | 285.3 | 287.2 | 287.1 |
| 7 | 355.60 | -90.00 | 0.00 | 50.790 | 0.207 | 0.012 | 288.4 | 285.4 | 287.1 | 286.9 |
| 8 | 355.60 | -86.00 | 0.00 | 50.778 | 0.515 | 0.012 | 288.2 | 285.4 | 286.9 | 286.5 |
| 9 | 355.60 | -82.00 | 0.00 | 50.784 | 0.824 | 0.012 | 288.1 | 285.4 | 286.7 | 286.0 |
| 10 | 355.60 | -78.00 | 0.00 | 50.778 | 1.212 | 0.012 | 288.1 | 285.4 | 286.7 | 285.7 |
| 11 | 355.60 | -74.00 | 0.00 | 50.789 | 1.892 | 0.012 | 288.1 | 285.4 | 286.5 | 284.9 |
| 12 | 355.60 | -70.00 | 0.00 | 50.790 | 2.115 | 0.012 | 288.2 | 285.5 | 286.4 | 284.6 |
| 13 | 355.60 | -66.00 | 0.00 | 50.769 | 2.781 | 0.012 | 288.2 | 285.5 | 286.2 | 283.9 |
| 14 | 355.60 | -62.00 | 0.00 | 50.807 | 3.809 | 0.012 | 288.2 | 285.5 | 286.0 | 282.9 |
| 15 | 355.60 | -58.00 | 0.00 | 50.800 | 4.900 | 0.012 | 288.2 | 285.4 | 285.7 | 281.7 |
| 16 | 355.60 | -54.00 | 0.00 | 50.799 | 6.383 | 0.012 | 288.2 | 285.5 | 285.5 | 280.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 355.60 | -50.00 | 0.00 | 50.799 | 7.219 | 0.012 | 288.2 | 285.5 | 285.4 | 279.6 |
| 18 | 355.60 | -46.00 | 0.00 | 50.776 | 8.370 | 0.012 | 288.2 | 285.5 | 285.2 | 278.5 |
| 19 | 355.60 | -42.00 | 0.00 | 50.787 | 10.159 | 0.013 | 288.1 | 285.5 | 285.1 | 277.1 |
| 20 | 355.60 | -38.00 | 0.00 | 50.806 | 12.446 | 0.012 | 288.1 | 285.5 | 284.8 | 275.1 |
| 21 | 355.60 | -34.00 | 0.00 | 50.851 | 14.217 | 0.013 | 288.2 | 285.5 | 284.7 | 273.8 |
| 22 | 355.60 | -30.00 | 0.00 | 50.893 | 16.027 | 0.012 | 288.2 | 285.5 | 284.5 | 272.3 |
| 23 | 355.60 | -26.00 | 0.00 | 50.883 | 18.093 | 0.012 | 288.2 | 285.5 | 284.3 | 270.7 |
| 24 | 355.60 | -22.00 | 0.00 | 50.884 | 20.136 | 0.013 | 288.2 | 285.5 | 284.3 | 269.4 |
| 25 | 355.60 | -18.00 | 0.00 | 50.879 | 22.187 | 0.013 | 288.2 | 285.5 | 284.1 | 267.9 |
| 26 | 355.60 | -14.00 | 0.00 | 50.884 | 23.936 | 0.014 | 288.1 | 285.5 | 284.0 | 266.7 |
| 27 | 355.60 | -10.00 | 0.00 | 50.889 | 25.442 | 0.013 | 288.2 | 285.5 | 284.0 | 265.7 |
| 28 | 355.60 | -6.00 | 0.00 | 50.896 | 26.434 | 0.014 | 288.2 | 285.5 | 283.9 | 265.0 |
| 29 | 355.60 | -2.00 | 0.00 | 50.892 | 27.394 | 0.018 | 288.2 | 285.5 | 283.7 | 264.2 |
| 30 | 355.60 | 2.00 | 0.00 | 50.903 | 27.639 | 0.016 | 288.1 | 285.5 | 283.7 | 264.1 |
| 31 | 355.60 | 6.00 | 0.00 | 50.899 | 27.587 | 0.016 | 288.2 | 285.5 | 283.7 | 264.1 |
| 32 | 355.60 | 10.00 | 0.00 | 50.903 | 27.188 | 0.020 | 288.2 | 285.5 | 283.7 | 264.4 |

File : TAB128T

27-OCT-88
27-OCT-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
X/D = 5, DRPTAB

C1 : AXIAL
C2 : HORIZONTAL
C3 : OFFSET -0.5MM
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.341 kPa

Mean gauged plenum pressure : 50.960 kPa
RMS gauged plenum pressure : 0.084 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | -0.50 | 51.048 | 0.026 | 0.014 | 283.9 | 285.3 | 283.6 | 283.6 |
| 3 | 254.00 | -96.00 | -0.50 | 51.045 | 0.042 | 0.012 | 284.0 | 285.2 | 283.7 | 283.7 |
| 4 | 254.00 | -92.00 | -0.50 | 51.057 | 0.127 | 0.013 | 283.9 | 285.3 | 283.5 | 283.4 |
| 5 | 254.00 | -88.00 | -0.50 | 51.046 | 0.391 | 0.015 | 283.9 | 285.3 | 283.4 | 283.1 |
| 6 | 254.00 | -84.00 | -0.50 | 51.064 | 0.793 | 0.012 | 283.9 | 285.3 | 283.5 | 282.8 |
| 7 | 254.00 | -80.00 | -0.50 | 51.075 | 1.288 | 0.013 | 284.0 | 285.2 | 283.6 | 282.5 |
| 8 | 254.00 | -76.00 | -0.50 | 51.060 | 1.970 | 0.015 | 284.0 | 285.2 | 283.7 | 282.1 |
| 9 | 254.00 | -72.00 | -0.50 | 51.062 | 2.761 | 0.013 | 284.1 | 285.3 | 283.6 | 281.4 |
| 10 | 254.00 | -68.00 | -0.50 | 51.056 | 3.856 | 0.016 | 284.0 | 285.2 | 283.5 | 280.4 |
| 11 | 254.00 | -64.00 | -0.50 | 51.060 | 5.296 | 0.016 | 284.0 | 285.2 | 283.4 | 279.2 |
| 12 | 254.00 | -60.00 | -0.50 | 51.044 | 6.569 | 0.014 | 284.0 | 285.2 | 283.2 | 278.0 |
| 13 | 254.00 | -56.00 | -0.50 | 51.068 | 8.306 | 0.017 | 284.0 | 285.2 | 283.1 | 276.6 |
| 14 | 254.00 | -52.00 | -0.50 | 51.061 | 10.158 | 0.016 | 284.0 | 285.2 | 283.0 | 275.1 |
| 15 | 254.00 | -48.00 | -0.50 | 51.040 | 12.455 | 0.016 | 284.0 | 285.3 | 282.7 | 273.2 |
| 16 | 254.00 | -44.00 | -0.50 | 51.039 | 15.279 | 0.015 | 284.0 | 285.2 | 282.6 | 271.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 254.00 | -40.00 | -0.50 | 51.032 | 18.443 | 0.014 | 284.0 | 285.2 | 282.7 | 269.1 |
| 18 | 254.00 | -36.00 | -0.50 | 51.033 | 21.836 | 0.016 | 284.0 | 285.2 | 282.5 | 266.7 |
| 19 | 254.00 | -32.00 | -0.50 | 51.033 | 25.185 | 0.017 | 284.0 | 285.3 | 282.5 | 264.6 |
| 20 | 254.00 | -28.00 | -0.50 | 51.026 | 28.065 | 0.016 | 284.0 | 285.2 | 282.2 | 262.6 |
| 21 | 254.00 | -24.00 | -0.50 | 51.004 | 30.315 | 0.018 | 284.1 | 285.3 | 281.9 | 261.0 |
| 22 | 254.00 | -20.00 | -0.50 | 50.994 | 32.322 | 0.016 | 284.1 | 285.2 | 281.7 | 259.7 |
| 23 | 254.00 | -16.00 | -0.50 | 51.006 | 34.307 | 0.017 | 284.1 | 285.2 | 281.4 | 258.3 |
| 24 | 254.00 | -12.00 | -0.50 | 50.996 | 36.208 | 0.014 | 284.1 | 285.2 | 281.2 | 257.1 |
| 25 | 254.00 | -8.00 | -0.50 | 50.976 | 37.172 | 0.016 | 284.2 | 285.2 | 281.2 | 256.5 |
| 26 | 254.00 | -4.00 | -0.50 | 50.969 | 37.571 | 0.017 | 284.1 | 285.3 | 281.0 | 256.1 |
| 27 | 254.00 | 0.00 | -0.50 | 50.937 | 37.779 | 0.017 | 284.1 | 285.3 | 281.0 | 256.0 |
| 28 | 254.00 | 4.00 | -0.50 | 50.911 | 37.698 | 0.015 | 284.1 | 285.2 | 280.9 | 256.0 |
| 29 | 254.00 | 8.00 | -0.50 | 50.882 | 37.797 | 0.019 | 284.1 | 285.2 | 281.0 | 256.0 |
| 30 | 254.00 | 12.00 | -0.50 | 50.883 | 37.761 | 0.019 | 284.2 | 285.3 | 281.0 | 256.0 |
| 31 | 254.00 | 16.00 | -0.50 | 50.897 | 37.892 | 0.019 | 284.2 | 285.3 | 281.1 | 256.0 |
| 32 | 254.00 | 20.00 | -0.50 | 50.927 | 37.286 | 0.022 | 284.2 | 285.2 | 281.3 | 256.6 |
| 33 | 254.00 | 24.00 | -0.50 | 50.920 | 35.513 | 0.021 | 284.2 | 285.3 | 281.7 | 257.9 |
| 34 | 254.00 | 28.00 | -0.50 | 50.922 | 32.193 | 0.017 | 284.3 | 285.2 | 281.9 | 259.9 |
| 35 | 254.00 | 32.00 | -0.50 | 50.928 | 28.069 | 0.017 | 284.3 | 285.3 | 282.1 | 262.5 |
| 36 | 254.00 | 36.00 | -0.50 | 50.925 | 23.000 | 0.020 | 284.3 | 285.3 | 282.2 | 265.7 |
| 37 | 254.00 | 40.00 | -0.50 | 50.955 | 18.296 | 0.022 | 284.3 | 285.3 | 282.1 | 268.7 |
| 38 | 254.00 | 44.00 | -0.50 | 50.916 | 14.302 | 0.023 | 284.3 | 285.3 | 282.2 | 271.4 |
| 39 | 254.00 | 48.00 | -0.50 | 50.911 | 10.920 | 0.019 | 284.4 | 285.3 | 282.7 | 274.3 |
| 40 | 254.00 | 52.00 | -0.50 | 50.916 | 8.970 | 0.021 | 284.4 | 285.3 | 282.9 | 275.9 |
| 41 | 254.00 | 56.00 | -0.50 | 50.927 | 7.747 | 0.018 | 284.4 | 285.3 | 283.1 | 277.0 |
| 42 | 254.00 | 60.00 | -0.50 | 50.902 | 6.031 | 0.023 | 284.5 | 285.3 | 283.5 | 278.7 |
| 43 | 254.00 | 64.00 | -0.50 | 50.888 | 5.215 | 0.022 | 284.4 | 285.3 | 283.6 | 279.4 |
| 44 | 254.00 | 68.00 | -0.50 | 50.882 | 3.358 | 0.023 | 284.5 | 285.3 | 283.9 | 281.2 |
| 45 | 254.00 | 72.00 | -0.50 | 50.871 | 2.873 | 0.020 | 284.4 | 285.3 | 284.0 | 281.7 |
| 46 | 254.00 | 76.00 | -0.50 | 50.881 | 2.295 | 0.018 | 284.5 | 285.3 | 284.0 | 282.1 |
| 47 | 254.00 | 80.00 | -0.50 | 50.868 | 1.698 | 0.023 | 284.5 | 285.3 | 284.1 | 282.7 |
| 48 | 254.00 | 84.00 | -0.50 | 50.856 | 0.904 | 0.019 | 284.5 | 285.3 | 284.3 | 283.6 |
| 49 | 254.00 | 88.00 | -0.50 | 50.853 | 0.586 | 0.022 | 284.5 | 285.3 | 284.1 | 283.6 |
| 50 | 254.00 | 92.00 | -0.50 | 50.815 | 0.232 | 0.018 | 284.6 | 285.3 | 284.3 | 284.1 |
| 51 | 254.00 | 96.00 | -0.50 | 50.796 | 0.070 | 0.020 | 284.6 | 285.3 | 284.3 | 284.2 |
| 52 | 254.00 | 100.00 | -0.50 | 50.792 | 0.017 | 0.021 | 284.6 | 285.3 | 284.3 | 284.3 |

File : TAB127T

27-OCT-88
27-OCT-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
X/D = 5, DRPTAB

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.307 kPa

Mean gauged plenum pressure : 51.004 kPa
RMS gauged plenum pressure : 0.029 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | 0.00 | -40.00 | 50.974 | 0.243 | 0.014 | 283.4 | 285.2 | 282.0 | 281.8 |
| 3 | 254.00 | 0.00 | -39.00 | 51.004 | 0.299 | 0.015 | 283.4 | 285.2 | 282.0 | 281.8 |
| 4 | 254.00 | 0.00 | -38.00 | 51.001 | 0.440 | 0.013 | 283.4 | 285.2 | 281.9 | 281.5 |
| 5 | 254.00 | 0.00 | -37.00 | 50.998 | 0.567 | 0.013 | 283.4 | 285.2 | 281.6 | 281.1 |
| 6 | 254.00 | 0.00 | -36.00 | 50.963 | 0.725 | 0.013 | 283.4 | 285.2 | 281.6 | 281.0 |
| 7 | 254.00 | 0.00 | -35.00 | 50.970 | 0.948 | 0.015 | 283.4 | 285.2 | 281.5 | 280.7 |
| 8 | 254.00 | 0.00 | -34.00 | 50.976 | 1.204 | 0.013 | 283.3 | 285.2 | 281.4 | 280.4 |
| 9 | 254.00 | 0.00 | -33.00 | 50.997 | 1.555 | 0.013 | 283.4 | 285.2 | 281.2 | 279.9 |
| 10 | 254.00 | 0.00 | -32.00 | 50.983 | 1.834 | 0.013 | 283.4 | 285.2 | 281.0 | 279.5 |
| 11 | 254.00 | 0.00 | -31.00 | 50.990 | 2.306 | 0.013 | 283.4 | 285.2 | 281.0 | 279.1 |
| 12 | 254.00 | 0.00 | -30.00 | 51.004 | 2.685 | 0.013 | 283.4 | 285.2 | 280.8 | 278.6 |
| 13 | 254.00 | 0.00 | -29.00 | 51.006 | 3.133 | 0.013 | 283.4 | 285.2 | 280.9 | 278.4 |
| 14 | 254.00 | 0.00 | -28.00 | 51.011 | 3.721 | 0.013 | 283.3 | 285.2 | 280.7 | 277.7 |
| 15 | 254.00 | 0.00 | -27.00 | 51.030 | 4.368 | 0.014 | 283.3 | 285.2 | 280.5 | 277.0 |
| 16 | 254.00 | 0.00 | -26.00 | 51.042 | 5.002 | 0.013 | 283.4 | 285.2 | 280.6 | 276.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 254.00 | 0.00 | -25.00 | 51.037 | 5.846 | 0.014 | 283.4 | 285.2 | 280.5 | 275.9 |
| 18 | 254.00 | 0.00 | -24.00 | 51.027 | 6.588 | 0.014 | 283.4 | 285.2 | 280.5 | 275.3 |
| 19 | 254.00 | 0.00 | -23.00 | 51.034 | 7.510 | 0.014 | 283.4 | 285.2 | 280.5 | 274.7 |
| 20 | 254.00 | 0.00 | -22.00 | 51.027 | 8.486 | 0.014 | 283.4 | 285.2 | 280.4 | 273.8 |
| 21 | 254.00 | 0.00 | -21.00 | 50.998 | 9.534 | 0.013 | 283.4 | 285.2 | 280.5 | 273.2 |
| 22 | 254.00 | 0.00 | -20.00 | 50.997 | 10.561 | 0.014 | 283.4 | 285.2 | 280.5 | 272.4 |
| 23 | 254.00 | 0.00 | -19.00 | 50.997 | 11.826 | 0.013 | 283.5 | 285.2 | 280.6 | 271.6 |
| 24 | 254.00 | 0.00 | -18.00 | 51.019 | 13.231 | 0.017 | 283.5 | 285.2 | 280.4 | 270.4 |
| 25 | 254.00 | 0.00 | -17.00 | 51.017 | 14.762 | 0.016 | 283.5 | 285.2 | 280.4 | 269.4 |
| 26 | 254.00 | 0.00 | -16.00 | 51.008 | 16.155 | 0.017 | 283.5 | 285.2 | 280.5 | 268.5 |
| 27 | 254.00 | 0.00 | -15.00 | 51.008 | 17.869 | 0.018 | 283.5 | 285.2 | 280.5 | 267.4 |
| 28 | 254.00 | 0.00 | -14.00 | 51.008 | 19.557 | 0.015 | 283.5 | 285.2 | 280.5 | 266.3 |
| 29 | 254.00 | 0.00 | -13.00 | 50.981 | 21.224 | 0.016 | 283.5 | 285.2 | 280.6 | 265.3 |
| 30 | 254.00 | 0.00 | -12.00 | 50.985 | 23.348 | 0.016 | 283.5 | 285.2 | 280.6 | 264.0 |
| 31 | 254.00 | 0.00 | -11.00 | 50.994 | 25.153 | 0.015 | 283.5 | 285.2 | 280.6 | 262.9 |
| 32 | 254.00 | 0.00 | -10.00 | 50.991 | 27.151 | 0.016 | 283.5 | 285.2 | 280.7 | 261.8 |
| 33 | 254.00 | 0.00 | -9.00 | 50.983 | 28.885 | 0.018 | 283.5 | 285.2 | 280.7 | 260.7 |
| 34 | 254.00 | 0.00 | -8.00 | 51.001 | 30.560 | 0.018 | 283.5 | 285.2 | 280.7 | 259.8 |
| 35 | 254.00 | 0.00 | -7.00 | 51.024 | 32.310 | 0.019 | 283.6 | 285.2 | 280.8 | 258.9 |
| 36 | 254.00 | 0.00 | -6.00 | 51.028 | 33.892 | 0.018 | 283.5 | 285.2 | 280.7 | 257.9 |
| 37 | 254.00 | 0.00 | -5.00 | 51.030 | 35.187 | 0.020 | 283.5 | 285.2 | 280.7 | 257.1 |
| 38 | 254.00 | 0.00 | -4.00 | 51.053 | 36.150 | 0.019 | 283.5 | 285.2 | 280.8 | 256.7 |
| 39 | 254.00 | 0.00 | -3.00 | 51.044 | 37.084 | 0.016 | 283.5 | 285.2 | 280.9 | 256.3 |
| 40 | 254.00 | 0.00 | -2.00 | 51.034 | 37.624 | 0.017 | 283.5 | 285.2 | 280.8 | 255.9 |
| 41 | 254.00 | 0.00 | -1.00 | 51.060 | 37.911 | 0.017 | 283.5 | 285.2 | 280.8 | 255.8 |
| 42 | 254.00 | 0.00 | 0.00 | 51.060 | 37.910 | 0.018 | 283.6 | 285.2 | 280.9 | 255.8 |
| 43 | 254.00 | 0.00 | 1.00 | 51.032 | 37.288 | 0.020 | 283.6 | 285.2 | 280.8 | 256.1 |
| 44 | 254.00 | 0.00 | 2.00 | 51.030 | 36.645 | 0.019 | 283.6 | 285.2 | 280.7 | 256.3 |
| 45 | 254.00 | 0.00 | 3.00 | 51.000 | 35.792 | 0.020 | 283.6 | 285.2 | 280.6 | 256.7 |
| 46 | 254.00 | 0.00 | 4.00 | 51.003 | 34.889 | 0.018 | 283.6 | 285.2 | 280.6 | 257.2 |
| 47 | 254.00 | 0.00 | 5.00 | 51.010 | 33.578 | 0.020 | 283.7 | 285.2 | 280.5 | 257.9 |
| 48 | 254.00 | 0.00 | 6.00 | 50.976 | 32.327 | 0.018 | 283.6 | 285.2 | 280.3 | 258.4 |
| 49 | 254.00 | 0.00 | 7.00 | 50.967 | 30.719 | 0.021 | 283.6 | 285.2 | 280.3 | 259.3 |
| 50 | 254.00 | 0.00 | 8.00 | 50.958 | 29.198 | 0.019 | 283.6 | 285.2 | 280.2 | 260.1 |
| 51 | 254.00 | 0.00 | 9.00 | 50.971 | 27.511 | 0.017 | 283.6 | 285.2 | 280.1 | 261.0 |
| 52 | 254.00 | 0.00 | 10.00 | 50.949 | 26.127 | 0.020 | 283.7 | 285.2 | 280.0 | 261.7 |

File : TAB329T 20-FEB-89
20-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN
BASELINE

C1 : X/D = 5
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.205 kPa

Mean gauged plenum pressure : 51.035 kPa
RMS gauged plenum pressure : 0.149 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | 0.00 | 51.191 | 0.035 | 0.013 | 278.8 | 279.4 | 278.6 | 278.6 |
| 3 | 254.00 | -96.00 | 0.00 | 50.982 | 0.024 | 0.012 | 278.8 | 279.4 | 278.7 | 278.7 |
| 4 | 254.00 | -92.00 | 0.00 | 51.070 | 0.090 | 0.014 | 278.7 | 279.6 | 278.6 | 278.5 |
| 5 | 254.00 | -88.00 | 0.00 | 50.840 | 0.172 | 0.013 | 278.7 | 279.6 | 278.6 | 278.5 |
| 6 | 254.00 | -84.00 | 0.00 | 50.885 | 0.431 | 0.014 | 278.8 | 279.6 | 278.6 | 278.3 |
| 7 | 254.00 | -80.00 | 0.00 | 50.873 | 0.786 | 0.015 | 278.7 | 279.7 | 278.6 | 278.0 |
| 8 | 254.00 | -76.00 | 0.00 | 50.839 | 1.470 | 0.014 | 278.7 | 279.7 | 278.6 | 277.4 |
| 9 | 254.00 | -72.00 | 0.00 | 50.595 | 2.039 | 0.014 | 278.6 | 279.7 | 278.5 | 276.9 |
| 10 | 254.00 | -68.00 | 0.00 | 50.993 | 2.984 | 0.016 | 278.7 | 279.8 | 278.6 | 276.2 |
| 11 | 254.00 | -64.00 | 0.00 | 51.060 | 3.909 | 0.014 | 278.7 | 279.8 | 278.6 | 275.5 |
| 12 | 254.00 | -60.00 | 0.00 | 51.191 | 5.251 | 0.017 | 278.8 | 279.8 | 278.6 | 274.5 |
| 13 | 254.00 | -56.00 | 0.00 | 51.241 | 6.949 | 0.014 | 278.8 | 279.8 | 278.6 | 273.2 |
| 14 | 254.00 | -52.00 | 0.00 | 51.152 | 8.035 | 0.017 | 278.7 | 279.8 | 278.6 | 272.4 |
| 15 | 254.00 | -48.00 | 0.00 | 50.993 | 10.783 | 0.015 | 278.6 | 279.8 | 278.5 | 270.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -44.00 | 0.00 | 51.114 | 13.729 | 0.017 | 278.7 | 279.9 | 278.6 | 268.4 |
| 17 | 254.00 | -40.00 | 0.00 | 51.121 | 16.968 | 0.015 | 278.8 | 279.9 | 278.7 | 266.3 |
| 18 | 254.00 | -36.00 | 0.00 | 51.012 | 20.760 | 0.015 | 278.8 | 279.9 | 278.7 | 263.8 |
| 19 | 254.00 | -32.00 | 0.00 | 50.974 | 24.336 | 0.015 | 278.8 | 279.9 | 278.6 | 261.5 |
| 20 | 254.00 | -28.00 | 0.00 | 50.989 | 27.926 | 0.015 | 278.7 | 279.9 | 278.6 | 259.3 |
| 21 | 254.00 | -24.00 | 0.00 | 51.000 | 30.980 | 0.014 | 278.7 | 279.9 | 278.6 | 257.6 |
| 22 | 254.00 | -20.00 | 0.00 | 50.917 | 32.787 | 0.017 | 278.7 | 279.9 | 278.6 | 256.5 |
| 23 | 254.00 | -16.00 | 0.00 | 50.960 | 34.994 | 0.016 | 278.6 | 279.8 | 278.5 | 255.2 |
| 24 | 254.00 | -12.00 | 0.00 | 51.008 | 36.412 | 0.014 | 278.6 | 279.9 | 278.6 | 254.5 |
| 25 | 254.00 | -8.00 | 0.00 | 50.978 | 36.790 | 0.013 | 278.6 | 279.8 | 278.5 | 254.2 |
| 26 | 254.00 | -4.00 | 0.00 | 50.987 | 36.732 | 0.014 | 278.6 | 279.8 | 278.5 | 254.3 |
| 27 | 254.00 | 0.00 | 0.00 | 51.043 | 36.015 | 0.013 | 278.7 | 279.8 | 278.6 | 254.8 |
| 28 | 254.00 | 4.00 | 0.00 | 51.141 | 35.226 | 0.014 | 278.7 | 279.8 | 278.6 | 255.2 |
| 29 | 254.00 | 8.00 | 0.00 | 51.249 | 34.106 | 0.013 | 278.7 | 279.9 | 278.6 | 255.8 |
| 30 | 254.00 | 12.00 | 0.00 | 51.228 | 32.737 | 0.013 | 278.8 | 279.9 | 278.6 | 256.6 |
| 31 | 254.00 | 16.00 | 0.00 | 51.081 | 31.582 | 0.013 | 278.7 | 279.9 | 278.6 | 257.2 |
| 32 | 254.00 | 20.00 | 0.00 | 51.139 | 29.746 | 0.015 | 278.7 | 279.9 | 278.6 | 258.3 |

File : TAB126T 27-OCT-88
27-OCT-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
X/D = 2, DRPTAB

C1 : AXIAL
C2 : HORIZONTAL
C3 : OFFSET 0.4MM
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.205 kPa

Mean gauged plenum pressure : 51.200 kPa
RMS gauged plenum pressure : 0.041 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 101.60 | -75.00 | 0.40 | 51.241 | 0.012 | 0.016 | 283.0 | 285.3 | 282.7 | 282.7 |
| 3 | 101.60 | -72.00 | 0.40 | 51.226 | 0.297 | 0.014 | 282.9 | 285.2 | 282.5 | 282.3 |
| 4 | 101.60 | -69.00 | 0.40 | 51.203 | 1.390 | 0.014 | 283.0 | 285.3 | 282.5 | 281.4 |
| 5 | 101.60 | -66.00 | 0.40 | 51.202 | 4.062 | 0.014 | 282.9 | 285.3 | 282.8 | 279.5 |
| 6 | 101.60 | -63.00 | 0.40 | 51.196 | 8.326 | 0.013 | 282.9 | 285.3 | 283.3 | 276.8 |
| 7 | 101.60 | -60.00 | 0.40 | 51.182 | 12.025 | 0.015 | 282.9 | 285.3 | 283.3 | 274.1 |
| 8 | 101.60 | -57.00 | 0.40 | 51.200 | 14.428 | 0.015 | 283.0 | 285.3 | 283.2 | 272.3 |
| 9 | 101.60 | -54.00 | 0.40 | 51.193 | 16.660 | 0.013 | 283.0 | 285.2 | 282.6 | 270.2 |
| 10 | 101.60 | -51.00 | 0.40 | 51.209 | 19.859 | 0.016 | 283.1 | 285.3 | 282.0 | 267.5 |
| 11 | 101.60 | -48.00 | 0.40 | 51.224 | 26.298 | 0.019 | 283.0 | 285.3 | 281.8 | 263.3 |
| 12 | 101.60 | -45.00 | 0.40 | 51.213 | 35.320 | 0.017 | 283.0 | 285.3 | 281.3 | 257.6 |
| 13 | 101.60 | -42.00 | 0.40 | 51.221 | 43.651 | 0.020 | 283.0 | 285.3 | 280.7 | 252.6 |
| 14 | 101.60 | -39.00 | 0.40 | 51.232 | 49.200 | 0.019 | 283.0 | 285.2 | 279.5 | 248.8 |
| 15 | 101.60 | -36.00 | 0.40 | 51.241 | 50.467 | 0.022 | 282.9 | 285.2 | 278.8 | 247.6 |
| 16 | 101.60 | -33.00 | 0.40 | 51.261 | 50.879 | 0.020 | 282.9 | 285.2 | 278.6 | 247.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 101.60 | -30.00 | 0.40 | 51.233 | 51.065 | 0.019 | 283.0 | 285.2 | 278.3 | 246.8 |
| 18 | 101.60 | -27.00 | 0.40 | 51.247 | 51.129 | 0.018 | 283.0 | 285.2 | 278.3 | 246.8 |
| 19 | 101.60 | -24.00 | 0.40 | 51.253 | 51.158 | 0.020 | 282.9 | 285.2 | 278.2 | 246.7 |
| 20 | 101.60 | -21.00 | 0.40 | 51.273 | 51.154 | 0.017 | 283.0 | 285.2 | 278.3 | 246.8 |
| 21 | 101.60 | -18.00 | 0.40 | 51.269 | 51.207 | 0.017 | 283.0 | 285.2 | 278.2 | 246.7 |
| 22 | 101.60 | -15.00 | 0.40 | 51.258 | 51.283 | 0.018 | 283.0 | 285.2 | 278.1 | 246.6 |
| 23 | 101.60 | -12.00 | 0.40 | 51.245 | 51.332 | 0.022 | 283.0 | 285.2 | 278.0 | 246.4 |
| 24 | 101.60 | -9.00 | 0.40 | 51.231 | 51.331 | 0.023 | 282.9 | 285.2 | 277.9 | 246.4 |
| 25 | 101.60 | -6.00 | 0.40 | 51.221 | 51.320 | 0.025 | 283.0 | 285.2 | 278.0 | 246.5 |
| 26 | 101.60 | -3.00 | 0.40 | 51.226 | 51.257 | 0.021 | 283.0 | 285.2 | 278.0 | 246.5 |
| 27 | 101.60 | 0.00 | 0.40 | 51.227 | 51.241 | 0.017 | 283.0 | 285.2 | 278.2 | 246.7 |
| 28 | 101.60 | 3.00 | 0.40 | 51.221 | 51.250 | 0.024 | 283.1 | 285.2 | 278.1 | 246.6 |
| 29 | 101.60 | 6.00 | 0.40 | 51.217 | 51.304 | 0.023 | 283.0 | 285.2 | 278.0 | 246.5 |
| 30 | 101.60 | 9.00 | 0.40 | 51.222 | 51.297 | 0.019 | 283.0 | 285.2 | 278.0 | 246.5 |
| 31 | 101.60 | 12.00 | 0.40 | 51.226 | 51.304 | 0.020 | 283.0 | 285.2 | 278.0 | 246.5 |
| 32 | 101.60 | 15.00 | 0.40 | 51.187 | 51.289 | 0.025 | 283.0 | 285.2 | 278.0 | 246.5 |
| 33 | 101.60 | 18.00 | 0.40 | 51.187 | 51.263 | 0.022 | 283.0 | 285.2 | 278.0 | 246.5 |
| 34 | 101.60 | 21.00 | 0.40 | 51.174 | 51.195 | 0.022 | 283.0 | 285.2 | 278.0 | 246.5 |
| 35 | 101.60 | 24.00 | 0.40 | 51.176 | 51.170 | 0.019 | 283.0 | 285.2 | 278.1 | 246.6 |
| 36 | 101.60 | 27.00 | 0.40 | 51.171 | 51.149 | 0.021 | 283.0 | 285.2 | 278.1 | 246.6 |
| 37 | 101.60 | 30.00 | 0.40 | 51.172 | 51.065 | 0.016 | 283.0 | 285.2 | 278.1 | 246.7 |
| 38 | 101.60 | 33.00 | 0.40 | 51.168 | 50.466 | 0.023 | 283.0 | 285.2 | 278.5 | 247.3 |
| 39 | 101.60 | 36.00 | 0.40 | 51.185 | 49.095 | 0.017 | 283.0 | 285.2 | 279.2 | 248.6 |
| 40 | 101.60 | 39.00 | 0.40 | 51.170 | 46.624 | 0.022 | 283.0 | 285.2 | 279.9 | 250.4 |
| 41 | 101.60 | 42.00 | 0.40 | 51.153 | 41.381 | 0.016 | 283.0 | 285.3 | 280.7 | 253.8 |
| 42 | 101.60 | 45.00 | 0.40 | 51.124 | 35.198 | 0.022 | 283.1 | 285.3 | 281.3 | 257.7 |
| 43 | 101.60 | 48.00 | 0.40 | 51.139 | 25.802 | 0.023 | 283.2 | 285.3 | 281.8 | 263.6 |
| 44 | 101.60 | 51.00 | 0.40 | 51.127 | 19.157 | 0.016 | 283.2 | 285.3 | 282.0 | 268.0 |
| 45 | 101.60 | 54.00 | 0.40 | 51.148 | 14.434 | 0.017 | 283.2 | 285.4 | 282.3 | 271.4 |
| 46 | 101.60 | 57.00 | 0.40 | 51.146 | 11.421 | 0.020 | 283.4 | 285.4 | 283.1 | 274.3 |
| 47 | 101.60 | 60.00 | 0.40 | 51.153 | 9.240 | 0.017 | 283.4 | 285.4 | 283.6 | 276.4 |
| 48 | 101.60 | 63.00 | 0.40 | 51.155 | 6.630 | 0.025 | 283.5 | 285.4 | 283.9 | 278.6 |
| 49 | 101.60 | 66.00 | 0.40 | 51.175 | 4.628 | 0.021 | 283.6 | 285.3 | 283.6 | 279.9 |
| 50 | 101.60 | 69.00 | 0.40 | 51.148 | 2.234 | 0.018 | 283.6 | 285.3 | 283.3 | 281.5 |
| 51 | 101.60 | 72.00 | 0.40 | 51.170 | 0.585 | 0.017 | 283.5 | 285.3 | 283.2 | 282.7 |
| 52 | 101.60 | 75.00 | 0.40 | 51.161 | 0.157 | 0.020 | 283.5 | 285.3 | 283.0 | 282.9 |

File : TAB125T 27-OCT-88
27-OCT-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
X/D = 2, DRPJET

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.171 kPa

Mean gauged plenum pressure : 51.274 kPa
RMS gauged plenum pressure : 0.110 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 101.60 | 0.00 | -20.00 | 51.057 | 1.523 | 0.023 | 283.8 | 283.4 | 280.9 | 279.7 |
| 3 | 101.60 | 0.00 | -19.50 | 51.056 | 1.640 | 0.031 | 283.7 | 283.8 | 281.0 | 279.7 |
| 4 | 101.60 | 0.00 | -19.00 | 51.047 | 2.065 | 0.029 | 283.7 | 284.0 | 280.8 | 279.1 |
| 5 | 101.60 | 0.00 | -18.50 | 51.120 | 2.484 | 0.028 | 283.7 | 284.2 | 280.6 | 278.6 |
| 6 | 101.60 | 0.00 | -18.00 | 51.101 | 3.027 | 0.033 | 283.7 | 284.4 | 280.5 | 278.1 |
| 7 | 101.60 | 0.00 | -17.50 | 51.094 | 3.672 | 0.034 | 283.7 | 284.5 | 280.5 | 277.6 |
| 8 | 101.60 | 0.00 | -17.00 | 51.136 | 4.397 | 0.032 | 283.6 | 284.6 | 280.3 | 276.8 |
| 9 | 101.60 | 0.00 | -16.50 | 51.141 | 5.176 | 0.039 | 283.6 | 284.7 | 280.2 | 276.1 |
| 10 | 101.60 | 0.00 | -16.00 | 51.221 | 6.014 | 0.040 | 283.6 | 284.8 | 280.2 | 275.5 |
| 11 | 101.60 | 0.00 | -15.50 | 51.220 | 7.000 | 0.042 | 283.6 | 284.9 | 280.0 | 274.5 |
| 12 | 101.60 | 0.00 | -15.00 | 51.232 | 8.166 | 0.045 | 283.6 | 285.0 | 280.0 | 273.7 |
| 13 | 101.60 | 0.00 | -14.50 | 51.317 | 9.361 | 0.045 | 283.6 | 285.1 | 279.9 | 272.7 |
| 14 | 101.60 | 0.00 | -14.00 | 51.478 | 10.749 | 0.045 | 283.5 | 285.1 | 279.9 | 271.7 |
| 15 | 101.60 | 0.00 | -13.50 | 51.499 | 12.215 | 0.049 | 283.6 | 285.2 | 279.8 | 270.6 |
| 16 | 101.60 | 0.00 | -13.00 | 51.537 | 13.756 | 0.052 | 283.5 | 285.2 | 279.9 | 269.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 101.60 | 0.00 | -12.50 | 51.631 | 15.511 | 0.052 | 283.6 | 285.2 | 279.9 | 268.4 |
| 18 | 101.60 | 0.00 | -12.00 | 51.253 | 17.426 | 0.058 | 283.5 | 285.2 | 280.0 | 267.2 |
| 19 | 101.60 | 0.00 | -11.50 | 51.259 | 19.561 | 0.059 | 283.6 | 285.3 | 280.1 | 265.9 |
| 20 | 101.60 | 0.00 | -11.00 | 51.255 | 21.570 | 0.058 | 283.6 | 285.3 | 280.1 | 264.6 |
| 21 | 101.60 | 0.00 | -10.50 | 51.257 | 23.803 | 0.058 | 283.5 | 285.3 | 280.2 | 263.3 |
| 22 | 101.60 | 0.00 | -10.00 | 51.278 | 26.196 | 0.061 | 283.5 | 285.3 | 280.3 | 261.9 |
| 23 | 101.60 | 0.00 | -9.50 | 51.285 | 28.673 | 0.062 | 283.5 | 285.3 | 280.4 | 260.6 |
| 24 | 101.60 | 0.00 | -9.00 | 51.290 | 31.117 | 0.063 | 283.5 | 285.3 | 280.4 | 259.1 |
| 25 | 101.60 | 0.00 | -8.50 | 51.302 | 33.568 | 0.060 | 283.5 | 285.3 | 280.5 | 257.8 |
| 26 | 101.60 | 0.00 | -8.00 | 51.298 | 35.947 | 0.055 | 283.5 | 285.4 | 280.6 | 256.6 |
| 27 | 101.60 | 0.00 | -7.50 | 51.282 | 38.191 | 0.055 | 283.5 | 285.4 | 280.6 | 255.4 |
| 28 | 101.60 | 0.00 | -7.00 | 51.300 | 40.191 | 0.056 | 283.5 | 285.4 | 280.6 | 254.3 |
| 29 | 101.60 | 0.00 | -6.50 | 51.308 | 42.132 | 0.056 | 283.5 | 285.4 | 280.4 | 253.1 |
| 30 | 101.60 | 0.00 | -6.00 | 51.308 | 43.601 | 0.055 | 283.5 | 285.4 | 280.3 | 252.3 |
| 31 | 101.60 | 0.00 | -5.50 | 51.293 | 45.106 | 0.047 | 283.5 | 285.4 | 280.1 | 251.3 |
| 32 | 101.60 | 0.00 | -5.00 | 51.299 | 46.482 | 0.055 | 283.5 | 285.4 | 280.0 | 250.6 |
| 33 | 101.60 | 0.00 | -4.50 | 51.288 | 47.635 | 0.054 | 283.5 | 285.4 | 279.7 | 249.7 |
| 34 | 101.60 | 0.00 | -4.00 | 51.282 | 48.566 | 0.054 | 283.5 | 285.4 | 279.5 | 249.1 |
| 35 | 101.60 | 0.00 | -3.50 | 51.252 | 49.235 | 0.051 | 283.5 | 285.4 | 279.3 | 248.6 |
| 36 | 101.60 | 0.00 | -3.00 | 51.258 | 49.753 | 0.051 | 283.4 | 285.4 | 279.1 | 248.2 |
| 37 | 101.60 | 0.00 | -2.50 | 51.290 | 50.176 | 0.049 | 283.4 | 285.4 | 278.9 | 247.8 |
| 38 | 101.60 | 0.00 | -2.00 | 51.306 | 50.567 | 0.048 | 283.5 | 285.4 | 278.8 | 247.5 |
| 39 | 101.60 | 0.00 | -1.50 | 51.307 | 50.837 | 0.047 | 283.4 | 285.4 | 278.6 | 247.2 |
| 40 | 101.60 | 0.00 | -1.00 | 51.309 | 51.066 | 0.044 | 283.4 | 285.4 | 278.5 | 247.0 |
| 41 | 101.60 | 0.00 | -0.50 | 51.324 | 51.202 | 0.038 | 283.4 | 285.4 | 278.4 | 246.9 |
| 42 | 101.60 | 0.00 | 0.00 | 51.326 | 51.267 | 0.039 | 283.4 | 285.4 | 278.4 | 246.8 |
| 43 | 101.60 | 0.00 | 0.50 | 51.322 | 51.292 | 0.033 | 283.4 | 285.4 | 278.3 | 246.7 |
| 44 | 101.60 | 0.00 | 1.00 | 51.319 | 51.251 | 0.034 | 283.3 | 285.4 | 278.4 | 246.8 |
| 45 | 101.60 | 0.00 | 1.50 | 51.309 | 51.163 | 0.029 | 283.3 | 285.4 | 278.3 | 246.8 |
| 46 | 101.60 | 0.00 | 2.00 | 51.307 | 51.053 | 0.026 | 283.3 | 285.4 | 278.5 | 247.0 |
| 47 | 101.60 | 0.00 | 2.50 | 51.300 | 50.829 | 0.030 | 283.3 | 285.4 | 278.6 | 247.2 |
| 48 | 101.60 | 0.00 | 3.00 | 51.296 | 50.479 | 0.028 | 283.3 | 285.4 | 278.7 | 247.5 |
| 49 | 101.60 | 0.00 | 3.50 | 51.264 | 50.044 | 0.020 | 283.3 | 285.4 | 278.8 | 247.8 |
| 50 | 101.60 | 0.00 | 4.00 | 51.264 | 49.437 | 0.017 | 283.3 | 285.4 | 279.0 | 248.2 |
| 51 | 101.60 | 0.00 | 4.50 | 51.284 | 48.808 | 0.014 | 283.3 | 285.4 | 279.1 | 248.6 |
| 52 | 101.60 | 0.00 | 5.00 | 51.282 | 48.003 | 0.014 | 283.3 | 285.4 | 279.3 | 249.2 |

File : TAB137T 1-NOV-88
1-NOV-88

Reduced experimental data file

*DIAGONAL PROFILE*

Unexcited, unheated jet, Mj = 0.8
-14 DEG, DRPTAB

C1 : X/D = 2
C2 : DIAGONAL
C3 : 0
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.833 kPa

Mean gauged plenum pressure : 51.045 kPa
RMS gauged plenum pressure : 0.130 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 101.60 | -80.00 | 0.00 | 50.760 | 0.012 | 0.013 | 288.1 | 285.4 | 287.4 | 287.4 |
| 3 | 101.60 | -78.00 | 0.00 | 50.724 | 0.009 | 0.012 | 288.0 | 285.4 | 288.0 | 288.0 |
| 4 | 101.60 | -76.00 | 0.00 | 51.051 | 0.008 | 0.012 | 288.1 | 285.5 | 288.1 | 288.1 |
| 5 | 101.60 | -74.00 | 0.00 | 51.175 | 0.006 | 0.012 | 288.0 | 285.5 | 287.9 | 287.9 |
| 6 | 101.60 | -72.00 | 0.00 | 51.157 | 0.003 | 0.011 | 288.1 | 285.6 | 287.5 | 287.5 |
| 7 | 101.60 | -70.00 | 0.00 | 51.160 | 0.002 | 0.011 | 288.1 | 285.6 | 287.4 | 287.4 |
| 8 | 101.60 | -68.00 | 0.00 | 51.148 | 0.005 | 0.011 | 288.2 | 285.6 | 287.4 | 287.4 |
| 9 | 101.60 | -66.00 | 0.00 | 51.131 | 0.007 | 0.011 | 288.3 | 285.7 | 287.0 | 287.0 |
| 10 | 101.60 | -64.00 | 0.00 | 51.130 | 0.155 | 0.010 | 288.4 | 285.7 | 286.8 | 286.7 |
| 11 | 101.60 | -62.00 | 0.00 | 51.116 | 0.475 | 0.011 | 288.4 | 285.7 | 286.5 | 286.1 |
| 12 | 101.60 | -60.00 | 0.00 | 51.104 | 0.440 | 0.010 | 288.4 | 285.7 | 286.2 | 285.8 |
| 13 | 101.60 | -58.00 | 0.00 | 51.073 | 0.901 | 0.010 | 288.4 | 285.8 | 285.6 | 284.9 |
| 14 | 101.60 | -56.00 | 0.00 | 51.073 | 1.162 | 0.010 | 288.3 | 285.8 | 285.1 | 284.1 |
| 15 | 101.60 | -54.00 | 0.00 | 51.078 | 1.347 | 0.010 | 288.2 | 285.8 | 284.7 | 283.6 |
| 16 | 101.60 | -52.00 | 0.00 | 51.093 | 1.761 | 0.010 | 288.3 | 285.8 | 284.0 | 282.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 101.60 | -50.00 | 0.00 | 51.122 | 2.602 | 0.010 | 288.4 | 285.8 | 283.3 | 281.2 |
| 18 | 101.60 | -48.00 | 0.00 | 51.137 | 4.589 | 0.010 | 288.4 | 285.8 | 282.8 | 279.1 |
| 19 | 101.60 | -46.00 | 0.00 | 51.156 | 8.381 | 0.010 | 288.4 | 285.8 | 281.6 | 275.1 |
| 20 | 101.60 | -44.00 | 0.00 | 51.152 | 12.948 | 0.010 | 288.5 | 285.9 | 281.8 | 271.9 |
| 21 | 101.60 | -42.00 | 0.00 | 51.131 | 18.089 | 0.010 | 288.7 | 285.9 | 281.8 | 268.4 |
| 22 | 101.60 | -40.00 | 0.00 | 51.142 | 22.619 | 0.010 | 288.7 | 285.9 | 281.9 | 265.6 |
| 23 | 101.60 | -38.00 | 0.00 | 51.127 | 28.092 | 0.010 | 288.7 | 285.8 | 281.9 | 262.2 |
| 24 | 101.60 | -36.00 | 0.00 | 51.110 | 31.534 | 0.010 | 288.5 | 285.8 | 281.9 | 260.2 |
| 25 | 101.60 | -34.00 | 0.00 | 51.098 | 35.504 | 0.011 | 288.3 | 285.8 | 281.9 | 258.0 |
| 26 | 101.60 | -32.00 | 0.00 | 51.064 | 38.342 | 0.010 | 288.6 | 285.8 | 281.7 | 256.2 |
| 27 | 101.60 | -30.00 | 0.00 | 51.064 | 41.627 | 0.010 | 288.9 | 285.8 | 281.5 | 254.3 |
| 28 | 101.60 | -28.00 | 0.00 | 51.049 | 44.120 | 0.010 | 288.9 | 285.8 | 281.0 | 252.6 |
| 29 | 101.60 | -26.00 | 0.00 | 51.037 | 45.926 | 0.010 | 289.1 | 285.8 | 280.6 | 251.3 |
| 30 | 101.60 | -24.00 | 0.00 | 51.037 | 47.110 | 0.010 | 289.1 | 285.8 | 280.3 | 250.4 |
| 31 | 101.60 | -22.00 | 0.00 | 51.047 | 48.172 | 0.010 | 289.1 | 285.8 | 280.0 | 249.7 |
| 32 | 101.60 | -20.00 | 0.00 | 51.040 | 48.976 | 0.010 | 288.7 | 285.8 | 279.8 | 249.1 |
| 33 | 101.60 | -18.00 | 0.00 | 51.051 | 49.603 | 0.010 | 288.5 | 285.8 | 279.5 | 248.5 |
| 34 | 101.60 | -16.00 | 0.00 | 51.043 | 50.117 | 0.011 | 288.4 | 285.8 | 279.4 | 248.2 |
| 35 | 101.60 | -14.00 | 0.00 | 51.029 | 50.425 | 0.011 | 288.2 | 285.8 | 279.1 | 247.8 |
| 36 | 101.60 | -12.00 | 0.00 | 51.023 | 50.695 | 0.011 | 288.3 | 285.8 | 278.9 | 247.5 |
| 37 | 101.60 | -10.00 | 0.00 | 51.013 | 50.846 | 0.011 | 288.3 | 285.8 | 278.8 | 247.3 |
| 38 | 101.60 | -8.00 | 0.00 | 51.014 | 50.934 | 0.011 | 288.4 | 285.8 | 278.8 | 247.3 |
| 39 | 101.60 | -6.00 | 0.00 | 51.024 | 50.990 | 0.011 | 288.5 | 285.8 | 278.8 | 247.2 |
| 40 | 101.60 | -4.00 | 0.00 | 51.021 | 50.976 | 0.011 | 288.6 | 285.8 | 278.8 | 247.2 |
| 41 | 101.60 | -2.00 | 0.00 | 51.025 | 50.932 | 0.012 | 288.6 | 285.9 | 278.9 | 247.3 |
| 42 | 101.60 | 0.00 | 0.00 | 51.035 | 50.907 | 0.012 | 288.4 | 285.8 | 279.0 | 247.4 |
| 43 | 101.60 | 2.00 | 0.00 | 51.035 | 50.830 | 0.012 | 288.5 | 285.9 | 279.1 | 247.6 |
| 44 | 101.60 | 4.00 | 0.00 | 51.073 | 50.825 | 0.012 | 288.6 | 285.8 | 279.1 | 247.6 |
| 45 | 101.60 | 6.00 | 0.00 | 51.092 | 50.768 | 0.012 | 288.7 | 285.9 | 279.1 | 247.6 |
| 46 | 101.60 | 8.00 | 0.00 | 51.101 | 50.539 | 0.012 | 288.4 | 285.8 | 279.3 | 247.9 |
| 47 | 101.60 | 10.00 | 0.00 | 51.102 | 50.248 | 0.012 | 288.5 | 285.8 | 279.5 | 248.2 |
| 48 | 101.60 | 12.00 | 0.00 | 51.122 | 49.945 | 0.012 | 288.6 | 285.8 | 279.7 | 248.5 |
| 49 | 101.60 | 14.00 | 0.00 | 51.097 | 49.699 | 0.012 | 288.7 | 285.9 | 279.8 | 248.7 |
| 50 | 101.60 | 16.00 | 0.00 | 50.777 | 49.148 | 0.013 | 288.7 | 285.9 | 279.9 | 249.1 |
| 51 | 101.60 | 18.00 | 0.00 | 50.782 | 48.669 | 0.013 | 288.7 | 285.9 | 280.1 | 249.5 |
| 52 | 101.60 | 20.00 | 0.00 | 50.776 | 48.035 | 0.013 | 289.0 | 285.9 | 280.4 | 250.1 |

File : TAB135T

29-OCT-88
29-OCT-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB

C1 : X/D = 1
C2 : ZERO
C3 : VARIABLE
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.612 kPa

Mean gauged plenum pressure : 51.202 kPa
RMS gauged plenum pressure : 0.094 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 50.80 | 0.00 | -20.00 | 51.427 | 0.031 | 0.020 | 290.8 | 286.2 | 288.5 | 288.5 |
| 3 | 50.80 | 0.00 | -19.50 | 51.349 | 0.018 | 0.024 | 290.6 | 286.2 | 289.6 | 289.6 |
| 4 | 50.80 | 0.00 | -19.00 | 51.313 | 0.014 | 0.025 | 290.6 | 286.2 | 289.6 | 289.6 |
| 5 | 50.80 | 0.00 | -18.50 | 51.279 | 0.013 | 0.023 | 290.7 | 286.3 | 289.6 | 289.6 |
| 6 | 50.80 | 0.00 | -18.00 | 51.241 | 0.013 | 0.022 | 290.6 | 286.3 | 289.1 | 289.1 |
| 7 | 50.80 | 0.00 | -17.50 | 51.233 | 0.014 | 0.025 | 290.6 | 286.4 | 288.9 | 288.9 |
| 8 | 50.80 | 0.00 | -17.00 | 51.223 | 0.025 | 0.027 | 290.7 | 286.4 | 288.5 | 288.5 |
| 9 | 50.80 | 0.00 | -16.50 | 51.262 | 0.118 | 0.025 | 290.8 | 286.4 | 288.3 | 288.2 |
| 10 | 50.80 | 0.00 | -16.00 | 51.270 | 0.292 | 0.032 | 290.7 | 286.4 | 287.6 | 287.4 |
| 11 | 50.80 | 0.00 | -15.50 | 51.263 | 0.683 | 0.033 | 290.7 | 286.4 | 287.2 | 286.6 |
| 12 | 50.80 | 0.00 | -15.00 | 51.253 | 1.334 | 0.034 | 290.7 | 286.5 | 286.2 | 285.1 |
| 13 | 50.80 | 0.00 | -14.50 | 51.264 | 2.183 | 0.030 | 290.7 | 286.5 | 285.5 | 283.7 |
| 14 | 50.80 | 0.00 | -14.00 | 51.270 | 3.436 | 0.031 | 290.8 | 286.6 | 284.9 | 282.1 |
| 15 | 50.80 | 0.00 | -13.50 | 51.270 | 4.944 | 0.033 | 290.7 | 286.5 | 284.4 | 280.4 |
| 16 | 50.80 | 0.00 | -13.00 | 51.252 | 6.982 | 0.036 | 290.9 | 286.6 | 284.3 | 278.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 50.80 | 0.00 | -12.50 | 51.253 | 9.530 | 0.037 | 290.9 | 286.6 | 283.7 | 276.3 |
| 18 | 50.80 | 0.00 | -12.00 | 51.229 | 12.595 | 0.039 | 291.1 | 286.6 | 283.5 | 273.9 |
| 19 | 50.80 | 0.00 | -11.50 | 51.248 | 16.045 | 0.037 | 291.7 | 286.6 | 283.6 | 271.6 |
| 20 | 50.80 | 0.00 | -11.00 | 51.246 | 19.753 | 0.036 | 292.0 | 286.6 | 283.3 | 268.9 |
| 21 | 50.80 | 0.00 | -10.50 | 51.232 | 24.462 | 0.031 | 292.2 | 286.7 | 283.3 | 265.9 |
| 22 | 50.80 | 0.00 | -10.00 | 51.220 | 29.695 | 0.037 | 292.4 | 286.7 | 283.2 | 262.6 |
| 23 | 50.80 | 0.00 | -9.50 | 51.224 | 34.561 | 0.035 | 292.6 | 286.7 | 283.1 | 259.8 |
| 24 | 50.80 | 0.00 | -9.00 | 51.218 | 39.377 | 0.032 | 292.4 | 286.7 | 282.8 | 256.9 |
| 25 | 50.80 | 0.00 | -8.50 | 51.204 | 43.189 | 0.036 | 291.9 | 286.8 | 282.5 | 254.6 |
| 26 | 50.80 | 0.00 | -8.00 | 51.225 | 46.355 | 0.036 | 291.6 | 286.7 | 282.0 | 252.5 |
| 27 | 50.80 | 0.00 | -7.50 | 51.197 | 48.412 | 0.035 | 291.4 | 286.7 | 281.6 | 251.2 |
| 28 | 50.80 | 0.00 | -7.00 | 51.199 | 49.728 | 0.036 | 291.5 | 286.8 | 281.1 | 250.1 |
| 29 | 50.80 | 0.00 | -6.50 | 51.189 | 50.432 | 0.035 | 291.6 | 286.8 | 280.7 | 249.4 |
| 30 | 50.80 | 0.00 | -6.00 | 51.200 | 50.823 | 0.037 | 291.6 | 286.8 | 280.5 | 249.0 |
| 31 | 50.80 | 0.00 | -5.50 | 51.186 | 51.029 | 0.034 | 291.7 | 286.8 | 280.2 | 248.6 |
| 32 | 50.80 | 0.00 | -5.00 | 51.192 | 51.152 | 0.037 | 291.6 | 286.8 | 280.1 | 248.5 |
| 33 | 50.80 | 0.00 | -4.50 | 51.181 | 51.228 | 0.032 | 291.7 | 286.8 | 280.0 | 248.4 |
| 34 | 50.80 | 0.00 | -4.00 | 51.184 | 51.221 | 0.034 | 291.8 | 286.8 | 279.9 | 248.3 |
| 35 | 50.80 | 0.00 | -3.50 | 51.171 | 51.232 | 0.037 | 291.7 | 286.9 | 279.9 | 248.3 |
| 36 | 50.80 | 0.00 | -3.00 | 51.164 | 51.219 | 0.035 | 291.8 | 286.9 | 279.9 | 248.3 |
| 37 | 50.80 | 0.00 | -2.50 | 51.175 | 51.235 | 0.033 | 292.0 | 286.9 | 279.9 | 248.3 |
| 38 | 50.80 | 0.00 | -2.00 | 51.187 | 51.238 | 0.034 | 291.9 | 286.9 | 279.9 | 248.3 |
| 39 | 50.80 | 0.00 | -1.50 | 51.171 | 51.238 | 0.037 | 291.9 | 286.9 | 279.9 | 248.3 |
| 40 | 50.80 | 0.00 | -1.00 | 51.179 | 51.229 | 0.034 | 291.8 | 286.9 | 279.9 | 248.3 |
| 41 | 50.80 | 0.00 | -0.50 | 51.128 | 51.195 | 0.029 | 292.0 | 286.9 | 279.9 | 248.3 |
| 42 | 50.80 | 0.00 | 0.00 | 51.122 | 51.171 | 0.029 | 292.1 | 286.9 | 279.9 | 248.3 |
| 43 | 50.80 | 0.00 | 0.50 | 51.101 | 51.158 | 0.026 | 292.3 | 286.9 | 279.9 | 248.3 |
| 44 | 50.80 | 0.00 | 1.00 | 51.098 | 51.151 | 0.027 | 292.3 | 286.9 | 279.8 | 248.2 |
| 45 | 50.80 | 0.00 | 1.50 | 51.109 | 51.152 | 0.031 | 292.4 | 286.9 | 279.8 | 248.2 |
| 46 | 50.80 | 0.00 | 2.00 | 51.106 | 51.142 | 0.030 | 292.2 | 286.9 | 279.8 | 248.2 |
| 47 | 50.80 | 0.00 | 2.50 | 51.092 | 51.130 | 0.028 | 292.2 | 286.9 | 279.7 | 248.2 |
| 48 | 50.80 | 0.00 | 3.00 | 51.068 | 51.105 | 0.030 | 292.1 | 286.9 | 279.6 | 248.1 |
| 49 | 50.80 | 0.00 | 3.50 | 51.084 | 51.097 | 0.031 | 292.0 | 286.9 | 279.6 | 248.1 |
| 50 | 50.80 | 0.00 | 4.00 | 51.042 | 51.021 | 0.027 | 292.1 | 286.9 | 279.6 | 248.1 |
| 51 | 50.80 | 0.00 | 4.50 | 51.039 | 50.907 | 0.026 | 292.2 | 286.9 | 279.7 | 248.3 |
| 52 | 50.80 | 0.00 | 5.00 | 51.060 | 50.679 | 0.027 | 292.1 | 286.9 | 280.0 | 248.6 |

File : TAB136T 1-NOV-88
1-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
-14 DEG, DRPTAB

C1 : X/D = 1
C2 : DIAGONAL
C3 : 0
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 97.901 kPa

Mean gauged plenum pressure : 51.272 kPa
RMS gauged plenum pressure : 0.060 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50.80 | 0.00 | 0.00 | 51.211 | 51.384 | 0.016 | 284.0 | 284.5 | 277.4 | 245.8 |
| 2 | 50.80 | -60.00 | 0.00 | 51.196 | 0.031 | 0.017 | 284.0 | 284.6 | 283.6 | 283.6 |
| 3 | 50.80 | -58.00 | 0.00 | 51.199 | 0.013 | 0.023 | 283.9 | 284.7 | 283.5 | 283.5 |
| 4 | 50.80 | -56.00 | 0.00 | 51.222 | 0.013 | 0.026 | 283.9 | 284.8 | 283.5 | 283.5 |
| 5 | 50.80 | -54.00 | 0.00 | 51.234 | 0.009 | 0.028 | 284.0 | 284.8 | 283.3 | 283.3 |
| 6 | 50.80 | -52.00 | 0.00 | 51.245 | 0.009 | 0.033 | 284.1 | 284.9 | 282.9 | 282.9 |
| 7 | 50.80 | -50.00 | 0.00 | 51.279 | 0.009 | 0.034 | 284.3 | 285.0 | 282.2 | 282.2 |
| 8 | 50.80 | -48.00 | 0.00 | 51.281 | 0.454 | 0.039 | 284.3 | 285.1 | 280.6 | 280.2 |
| 9 | 50.80 | -46.00 | 0.00 | 51.300 | 6.064 | 0.040 | 284.2 | 285.1 | 275.7 | 271.0 |
| 10 | 50.80 | -44.00 | 0.00 | 51.318 | 15.562 | 0.044 | 284.3 | 285.1 | 277.4 | 265.9 |
| 11 | 50.80 | -42.00 | 0.00 | 51.306 | 29.140 | 0.044 | 284.3 | 285.1 | 280.6 | 260.4 |
| 12 | 50.80 | -40.00 | 0.00 | 51.335 | 36.086 | 0.047 | 284.3 | 285.2 | 281.8 | 257.6 |
| 13 | 50.80 | -38.00 | 0.00 | 51.352 | 39.111 | 0.048 | 284.3 | 285.2 | 282.4 | 256.5 |
| 14 | 50.80 | -36.00 | 0.00 | 51.335 | 39.774 | 0.049 | 284.3 | 285.2 | 282.0 | 255.8 |
| 15 | 50.80 | -34.00 | 0.00 | 51.297 | 44.256 | 0.053 | 284.3 | 285.3 | 281.3 | 252.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50.80 | -32.00 | 0.00 | 51.290 | 48.582 | 0.053 | 284.3 | 285.3 | 279.8 | 249.3 |
| 17 | 50.80 | -30.00 | 0.00 | 51.293 | 50.461 | 0.055 | 284.3 | 285.3 | 278.9 | 247.6 |
| 18 | 50.80 | -28.00 | 0.00 | 51.284 | 50.806 | 0.055 | 284.2 | 285.3 | 278.4 | 247.0 |
| 19 | 50.80 | -26.00 | 0.00 | 51.283 | 51.229 | 0.062 | 284.0 | 285.2 | 278.0 | 246.4 |
| 20 | 50.80 | -24.00 | 0.00 | 51.274 | 51.357 | 0.059 | 284.0 | 285.2 | 278.0 | 246.4 |
| 21 | 50.80 | -22.00 | 0.00 | 51.267 | 51.423 | 0.061 | 284.0 | 285.2 | 278.0 | 246.3 |
| 22 | 50.80 | -20.00 | 0.00 | 51.256 | 51.426 | 0.060 | 284.1 | 285.3 | 278.1 | 246.4 |
| 23 | 50.80 | -18.00 | 0.00 | 51.270 | 51.436 | 0.063 | 284.3 | 285.3 | 278.1 | 246.4 |
| 24 | 50.80 | -16.00 | 0.00 | 51.254 | 51.432 | 0.068 | 284.4 | 285.3 | 278.1 | 246.4 |
| 25 | 50.80 | -14.00 | 0.00 | 51.264 | 51.435 | 0.069 | 284.4 | 285.3 | 278.1 | 246.4 |
| 26 | 50.80 | -12.00 | 0.00 | 51.288 | 51.471 | 0.067 | 284.5 | 285.3 | 278.1 | 246.4 |
| 27 | 50.80 | -10.00 | 0.00 | 51.313 | 51.492 | 0.071 | 284.7 | 285.3 | 278.1 | 246.4 |
| 28 | 50.80 | -8.00 | 0.00 | 51.345 | 51.512 | 0.073 | 284.8 | 285.4 | 278.2 | 246.5 |
| 29 | 50.80 | -6.00 | 0.00 | 51.343 | 51.523 | 0.075 | 284.8 | 285.4 | 278.2 | 246.5 |
| 30 | 50.80 | -4.00 | 0.00 | 51.361 | 51.544 | 0.079 | 284.9 | 285.4 | 278.2 | 246.4 |
| 31 | 50.80 | -2.00 | 0.00 | 51.364 | 51.542 | 0.076 | 284.9 | 285.4 | 278.2 | 246.4 |
| 32 | 50.80 | 0.00 | 0.00 | 51.353 | 51.522 | 0.075 | 285.0 | 285.4 | 278.3 | 246.5 |
| 33 | 50.80 | 2.00 | 0.00 | 51.339 | 51.526 | 0.078 | 285.0 | 285.5 | 278.4 | 246.6 |
| 34 | 50.80 | 4.00 | 0.00 | 51.326 | 51.503 | 0.076 | 285.1 | 285.5 | 278.4 | 246.6 |
| 35 | 50.80 | 6.00 | 0.00 | 51.297 | 51.469 | 0.074 | 285.2 | 285.5 | 278.5 | 246.8 |
| 36 | 50.80 | 8.00 | 0.00 | 51.255 | 51.423 | 0.074 | 285.3 | 285.5 | 278.5 | 246.8 |
| 37 | 50.80 | 10.00 | 0.00 | 51.226 | 51.407 | 0.076 | 285.4 | 285.5 | 278.4 | 246.7 |
| 38 | 50.80 | 12.00 | 0.00 | 51.225 | 51.380 | 0.071 | 285.4 | 285.5 | 278.5 | 246.8 |
| 39 | 50.80 | 14.00 | 0.00 | 51.188 | 51.346 | 0.072 | 285.4 | 285.5 | 278.5 | 246.8 |
| 40 | 50.80 | 16.00 | 0.00 | 51.173 | 51.324 | 0.077 | 285.4 | 285.5 | 278.5 | 246.8 |
| 41 | 50.80 | 18.00 | 0.00 | 51.154 | 51.295 | 0.074 | 285.6 | 285.5 | 278.6 | 246.9 |
| 42 | 50.80 | 20.00 | 0.00 | 51.149 | 51.266 | 0.070 | 285.7 | 285.6 | 278.7 | 247.0 |
| 43 | 50.80 | 0.00 | 0.00 | 51.137 | 51.295 | 0.066 | 285.8 | 285.5 | 278.4 | 246.7 |

File : TAB337T 24-FEB-89
24-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 635 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 5
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.781 kPa

Mean gauged plenum pressure : 51.348 kPa
RMS gauged plenum pressure : 0.388 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | 0.00 | 51.577 | 0.149 | 0.085 | 277.0 | 631.2 | 298.0 | 297.9 |
| 3 | 254.00 | -96.00 | 0.00 | 50.605 | 0.304 | 0.160 | 277.1 | 632.8 | 301.0 | 300.7 |
| 4 | 254.00 | -92.00 | 0.00 | 51.309 | 0.702 | 0.403 | 277.1 | 632.0 | 311.1 | 310.5 |
| 5 | 254.00 | -88.00 | 0.00 | 51.574 | 1.265 | 0.741 | 277.1 | 630.0 | 317.9 | 316.7 |
| 6 | 254.00 | -84.00 | 0.00 | 51.530 | 1.974 | 1.119 | 277.1 | 628.8 | 327.3 | 325.5 |
| 7 | 254.00 | -80.00 | 0.00 | 51.491 | 2.779 | 1.586 | 277.4 | 633.9 | 333.3 | 330.7 |
| 8 | 254.00 | -76.00 | 0.00 | 51.309 | 3.719 | 2.165 | 277.6 | 630.8 | 343.2 | 339.6 |
| 9 | 254.00 | -72.00 | 0.00 | 50.830 | 4.982 | 2.936 | 277.9 | 631.1 | 357.1 | 352.1 |
| 10 | 254.00 | -68.00 | 0.00 | 51.702 | 6.162 | 3.739 | 277.7 | 629.6 | 365.0 | 358.8 |
| 11 | 254.00 | -64.00 | 0.00 | 51.625 | 7.924 | 4.616 | 277.6 | 628.8 | 378.9 | 370.7 |
| 12 | 254.00 | -60.00 | 0.00 | 51.551 | 9.920 | 5.711 | 277.7 | 632.7 | 394.7 | 384.1 |
| 13 | 254.00 | -56.00 | 0.00 | 51.263 | 12.080 | 6.979 | 277.6 | 634.7 | 408.8 | 395.7 |
| 14 | 254.00 | -52.00 | 0.00 | 51.070 | 14.533 | 8.395 | 277.4 | 634.3 | 425.2 | 409.0 |
| 15 | 254.00 | -48.00 | 0.00 | 50.689 | 17.480 | 10.141 | 277.6 | 633.1 | 440.3 | 420.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -44.00 | 0.00 | 51.090 | 20.478 | 11.856 | 277.3 | 631.9 | 450.4 | 427.1 |
| 17 | 254.00 | -40.00 | 0.00 | 51.498 | 23.672 | 13.706 | 277.4 | 630.3 | 465.6 | 438.3 |
| 18 | 254.00 | -36.00 | 0.00 | 51.682 | 26.697 | 15.373 | 277.6 | 629.4 | 479.6 | 448.4 |
| 19 | 254.00 | -32.00 | 0.00 | 51.324 | 28.419 | 16.483 | 277.5 | 635.1 | 492.7 | 458.9 |
| 20 | 254.00 | -28.00 | 0.00 | 51.179 | 30.673 | 17.798 | 277.5 | 637.0 | 505.1 | 468.2 |
| 21 | 254.00 | -24.00 | 0.00 | 51.545 | 33.111 | 19.323 | 277.3 | 635.3 | 511.9 | 472.1 |
| 22 | 254.00 | -20.00 | 0.00 | 51.767 | 35.301 | 20.498 | 277.4 | 632.1 | 518.5 | 476.0 |
| 23 | 254.00 | -16.00 | 0.00 | 51.911 | 36.881 | 21.405 | 277.4 | 632.4 | 525.5 | 480.9 |
| 24 | 254.00 | -12.00 | 0.00 | 50.829 | 36.911 | 21.461 | 277.3 | 634.0 | 530.8 | 485.7 |
| 25 | 254.00 | -8.00 | 0.00 | 51.001 | 37.410 | 21.646 | 277.5 | 635.1 | 531.6 | 485.9 |
| 26 | 254.00 | -4.00 | 0.00 | 51.476 | 37.866 | 21.954 | 277.3 | 633.3 | 533.1 | 486.9 |
| 27 | 254.00 | 0.00 | 0.00 | 51.633 | 37.976 | 22.072 | 277.4 | 631.6 | 532.6 | 486.3 |
| 28 | 254.00 | 4.00 | 0.00 | 51.876 | 38.217 | 22.146 | 277.4 | 631.1 | 531.0 | 484.6 |
| 29 | 254.00 | 8.00 | 0.00 | 51.110 | 37.395 | 21.732 | 277.4 | 631.9 | 530.5 | 484.9 |
| 30 | 254.00 | 12.00 | 0.00 | 51.024 | 37.085 | 21.505 | 277.2 | 633.2 | 529.0 | 483.9 |
| 31 | 254.00 | 16.00 | 0.00 | 51.370 | 36.076 | 20.963 | 277.5 | 631.1 | 520.3 | 476.9 |
| 32 | 254.00 | 20.00 | 0.00 | 51.654 | 34.506 | 19.956 | 277.8 | 630.5 | 511.2 | 470.0 |
| 33 | 254.00 | 24.00 | 0.00 | 51.960 | 31.582 | 18.353 | 277.7 | 630.5 | 499.2 | 461.8 |
| 34 | 254.00 | 28.00 | 0.00 | 51.205 | 27.094 | 15.496 | 277.6 | 634.0 | 485.3 | 453.3 |
| 35 | 254.00 | 32.00 | 0.00 | 51.216 | 22.861 | 13.209 | 277.8 | 636.1 | 467.5 | 440.9 |
| 36 | 254.00 | 36.00 | 0.00 | 51.559 | 18.356 | 10.569 | 277.7 | 633.4 | 444.9 | 424.0 |
| 37 | 254.00 | 40.00 | 0.00 | 51.826 | 15.120 | 8.823 | 277.5 | 631.4 | 431.5 | 414.5 |
| 38 | 254.00 | 44.00 | 0.00 | 51.448 | 11.728 | 6.866 | 277.8 | 632.8 | 413.2 | 400.3 |
| 39 | 254.00 | 48.00 | 0.00 | 50.779 | 9.481 | 5.516 | 278.0 | 635.0 | 400.5 | 390.2 |
| 40 | 254.00 | 52.00 | 0.00 | 51.503 | 7.711 | 4.594 | 278.0 | 633.0 | 385.1 | 377.0 |
| 41 | 254.00 | 56.00 | 0.00 | 51.645 | 6.313 | 3.795 | 277.9 | 632.3 | 370.2 | 363.7 |
| 42 | 254.00 | 60.00 | 0.00 | 51.417 | 5.277 | 3.126 | 278.0 | 633.6 | 363.2 | 357.9 |
| 43 | 254.00 | 64.00 | 0.00 | 50.730 | 4.036 | 2.355 | 278.0 | 634.3 | 353.5 | 349.5 |
| 44 | 254.00 | 68.00 | 0.00 | 51.486 | 3.292 | 1.868 | 277.9 | 632.7 | 342.6 | 339.4 |
| 45 | 254.00 | 72.00 | 0.00 | 51.832 | 2.390 | 1.427 | 277.9 | 632.8 | 335.6 | 333.3 |
| 46 | 254.00 | 76.00 | 0.00 | 51.719 | 1.658 | 1.006 | 278.0 | 632.7 | 326.3 | 324.8 |
| 47 | 254.00 | 80.00 | 0.00 | 51.267 | 1.094 | 0.679 | 278.3 | 632.1 | 320.8 | 319.8 |
| 48 | 254.00 | 84.00 | 0.00 | 50.602 | 0.497 | 0.308 | 278.0 | 634.4 | 311.3 | 310.9 |
| 49 | 254.00 | 88.00 | 0.00 | 51.048 | 0.300 | 0.219 | 277.8 | 634.8 | 307.0 | 306.7 |
| 50 | 254.00 | 92.00 | 0.00 | 51.176 | 0.071 | 0.078 | 278.0 | 632.1 | 297.1 | 297.0 |
| 51 | 254.00 | 96.00 | 0.00 | 51.276 | 0.028 | 0.022 | 277.8 | 631.6 | 292.0 | 292.0 |
| 52 | 254.00 | 100.00 | 0.00 | 50.474 | 0.011 | 0.011 | 277.9 | 632.4 | 289.8 | 289.8 |

File : TAB338T 24-FEB-89
24-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 635 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 5
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.781 kPa

Mean gauged plenum pressure : 51.474 kPa
RMS gauged plenum pressure : 0.397 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | 0.00 | -40.00 | 52.085 | 0.359 | 0.211 | 277.7 | 630.5 | 320.0 | 319.7 |
| 3 | 254.00 | 0.00 | -39.00 | 51.462 | 0.439 | 0.266 | 277.9 | 634.2 | 320.1 | 319.7 |
| 4 | 254.00 | 0.00 | -38.00 | 51.093 | 0.547 | 0.358 | 278.0 | 635.8 | 323.3 | 322.8 |
| 5 | 254.00 | 0.00 | -37.00 | 51.389 | 0.763 | 0.406 | 278.2 | 635.6 | 330.0 | 329.3 |
| 6 | 254.00 | 0.00 | -36.00 | 51.720 | 1.059 | 0.591 | 278.3 | 634.0 | 334.9 | 333.9 |
| 7 | 254.00 | 0.00 | -35.00 | 51.567 | 1.228 | 0.737 | 277.9 | 633.4 | 338.8 | 337.6 |
| 8 | 254.00 | 0.00 | -34.00 | 50.814 | 1.487 | 0.876 | 277.8 | 635.7 | 342.8 | 341.3 |
| 9 | 254.00 | 0.00 | -33.00 | 51.579 | 1.822 | 1.045 | 277.9 | 632.5 | 347.1 | 345.3 |
| 10 | 254.00 | 0.00 | -32.00 | 51.751 | 2.148 | 1.247 | 278.1 | 630.5 | 352.9 | 350.7 |
| 11 | 254.00 | 0.00 | -31.00 | 51.858 | 2.554 | 1.481 | 278.1 | 629.8 | 356.6 | 354.0 |
| 12 | 254.00 | 0.00 | -30.00 | 51.456 | 3.047 | 1.771 | 278.1 | 631.0 | 362.5 | 359.4 |
| 13 | 254.00 | 0.00 | -29.00 | 50.920 | 3.582 | 2.086 | 278.3 | 632.6 | 368.3 | 364.6 |
| 14 | 254.00 | 0.00 | -28.00 | 51.514 | 4.197 | 2.443 | 278.5 | 631.5 | 374.2 | 369.8 |
| 15 | 254.00 | 0.00 | -27.00 | 51.754 | 4.919 | 2.869 | 278.0 | 630.4 | 379.2 | 374.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | 0.00 | -26.00 | 51.901 | 5.496 | 3.254 | 278.1 | 629.3 | 384.1 | 378.2 |
| 17 | 254.00 | 0.00 | -25.00 | 51.272 | 6.219 | 3.593 | 278.0 | 631.1 | 392.2 | 385.5 |
| 18 | 254.00 | 0.00 | -24.00 | 51.250 | 7.022 | 4.044 | 278.1 | 633.3 | 398.2 | 390.5 |
| 19 | 254.00 | 0.00 | -23.00 | 51.844 | 8.148 | 4.701 | 278.2 | 632.3 | 405.9 | 396.9 |
| 20 | 254.00 | 0.00 | -22.00 | 52.042 | 8.962 | 5.264 | 278.0 | 631.3 | 413.1 | 403.1 |
| 21 | 254.00 | 0.00 | -21.00 | 51.821 | 10.209 | 5.962 | 277.7 | 630.5 | 419.1 | 407.6 |
| 22 | 254.00 | 0.00 | -20.00 | 50.965 | 11.226 | 6.557 | 277.7 | 631.8 | 428.7 | 415.9 |
| 23 | 254.00 | 0.00 | -19.00 | 50.573 | 12.432 | 7.204 | 277.9 | 635.2 | 434.5 | 420.2 |
| 24 | 254.00 | 0.00 | -18.00 | 51.573 | 14.032 | 8.117 | 277.9 | 632.8 | 439.3 | 423.1 |
| 25 | 254.00 | 0.00 | -17.00 | 51.897 | 15.363 | 8.974 | 277.8 | 630.7 | 444.7 | 426.9 |
| 26 | 254.00 | 0.00 | -16.00 | 51.495 | 16.868 | 9.827 | 278.1 | 630.4 | 455.9 | 436.1 |
| 27 | 254.00 | 0.00 | -15.00 | 50.900 | 18.276 | 10.648 | 278.0 | 630.9 | 462.4 | 440.8 |
| 28 | 254.00 | 0.00 | -14.00 | 51.206 | 20.019 | 11.629 | 278.2 | 629.8 | 468.3 | 444.6 |
| 29 | 254.00 | 0.00 | -13.00 | 51.641 | 21.957 | 12.627 | 278.2 | 630.9 | 475.7 | 449.6 |
| 30 | 254.00 | 0.00 | -12.00 | 52.089 | 23.964 | 13.942 | 278.1 | 633.1 | 485.1 | 456.4 |
| 31 | 254.00 | 0.00 | -11.00 | 50.978 | 25.320 | 14.658 | 277.9 | 636.3 | 493.6 | 463.0 |
| 32 | 254.00 | 0.00 | -10.00 | 51.209 | 27.084 | 15.853 | 277.8 | 637.2 | 498.3 | 465.6 |
| 33 | 254.00 | 0.00 | -9.00 | 51.544 | 29.078 | 16.888 | 277.6 | 635.6 | 505.8 | 470.5 |
| 34 | 254.00 | 0.00 | -8.00 | 51.727 | 30.884 | 17.938 | 277.5 | 634.8 | 511.2 | 473.7 |
| 35 | 254.00 | 0.00 | -7.00 | 51.638 | 32.456 | 18.900 | 277.6 | 634.4 | 517.0 | 477.5 |
| 36 | 254.00 | 0.00 | -6.00 | 51.003 | 33.556 | 19.513 | 277.6 | 636.1 | 521.8 | 480.8 |
| 37 | 254.00 | 0.00 | -5.00 | 51.688 | 35.373 | 20.490 | 277.7 | 634.3 | 527.1 | 483.9 |
| 38 | 254.00 | 0.00 | -4.00 | 51.877 | 36.916 | 21.414 | 277.6 | 632.8 | 528.5 | 483.6 |
| 39 | 254.00 | 0.00 | -3.00 | 51.640 | 37.146 | 21.535 | 277.7 | 632.7 | 530.1 | 484.8 |
| 40 | 254.00 | 0.00 | -2.00 | 50.859 | 36.980 | 21.580 | 277.9 | 634.7 | 533.7 | 488.3 |
| 41 | 254.00 | 0.00 | -1.00 | 51.329 | 37.818 | 21.955 | 277.8 | 633.6 | 534.5 | 488.2 |
| 42 | 254.00 | 0.00 | 0.00 | 51.752 | 37.984 | 22.005 | 277.8 | 632.2 | 530.4 | 484.3 |
| 43 | 254.00 | 0.00 | 1.00 | 51.793 | 37.736 | 21.900 | 278.0 | 630.8 | 531.1 | 485.2 |
| 44 | 254.00 | 0.00 | 2.00 | 51.583 | 36.720 | 21.321 | 277.9 | 629.5 | 526.8 | 482.2 |
| 45 | 254.00 | 0.00 | 3.00 | 50.838 | 35.330 | 20.510 | 277.7 | 631.4 | 526.0 | 482.9 |
| 46 | 254.00 | 0.00 | 4.00 | 51.365 | 34.671 | 20.136 | 277.6 | 630.5 | 522.8 | 480.6 |
| 47 | 254.00 | 0.00 | 5.00 | 51.778 | 33.625 | 19.529 | 278.0 | 627.8 | 515.4 | 474.8 |
| 48 | 254.00 | 0.00 | 6.00 | 51.810 | 32.389 | 18.785 | 278.0 | 623.8 | 508.7 | 469.8 |
| 49 | 254.00 | 0.00 | 7.00 | 50.920 | 30.169 | 17.447 | 278.1 | 628.5 | 509.1 | 472.5 |
| 50 | 254.00 | 0.00 | 8.00 | 51.043 | 28.646 | 16.601 | 277.7 | 632.4 | 500.4 | 465.9 |
| 51 | 254.00 | 0.00 | 9.00 | 51.490 | 27.405 | 15.831 | 277.8 | 631.1 | 494.4 | 461.6 |
| 52 | 254.00 | 0.00 | 10.00 | 51.752 | 25.674 | 14.966 | 277.9 | 631.1 | 490.4 | 459.6 |

File : TAB343T 25-FEB-89
25-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 650 K
DRPTAB, PLTDMN, -14 DEG
0-0

C1 : X/D = 5
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.544 kPa

Mean gauged plenum pressure : 51.424 kPa
RMS gauged plenum pressure : 0.413 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | 0.00 | 51.522 | 0.040 | 0.028 | 283.6 | 649.2 | 303.5 | 303.5 |
| 3 | 254.00 | -96.00 | 0.00 | 51.084 | 0.120 | 0.070 | 283.7 | 649.9 | 301.7 | 301.6 |
| 4 | 254.00 | -92.00 | 0.00 | 51.315 | 0.314 | 0.153 | 283.7 | 650.6 | 309.3 | 309.0 |
| 5 | 254.00 | -88.00 | 0.00 | 51.981 | 0.535 | 0.278 | 283.7 | 648.1 | 315.5 | 315.0 |
| 6 | 254.00 | -84.00 | 0.00 | 51.951 | 0.686 | 0.483 | 284.1 | 647.9 | 320.5 | 319.9 |
| 7 | 254.00 | -80.00 | 0.00 | 51.274 | 1.737 | 1.160 | 284.2 | 648.8 | 338.5 | 336.8 |
| 8 | 254.00 | -76.00 | 0.00 | 51.111 | 2.367 | 1.410 | 283.8 | 649.3 | 343.4 | 341.1 |
| 9 | 254.00 | -72.00 | 0.00 | 51.575 | 3.468 | 1.965 | 283.8 | 646.6 | 351.8 | 348.4 |
| 10 | 254.00 | -68.00 | 0.00 | 51.837 | 3.867 | 2.369 | 283.8 | 645.9 | 357.7 | 353.8 |
| 11 | 254.00 | -64.00 | 0.00 | 51.045 | 4.652 | 2.574 | 283.9 | 648.9 | 365.7 | 360.9 |
| 12 | 254.00 | -60.00 | 0.00 | 50.674 | 5.485 | 3.159 | 283.8 | 650.2 | 382.7 | 376.9 |
| 13 | 254.00 | -56.00 | 0.00 | 51.277 | 6.394 | 3.687 | 284.0 | 649.4 | 389.5 | 382.6 |
| 14 | 254.00 | -52.00 | 0.00 | 51.604 | 8.716 | 5.168 | 283.8 | 647.6 | 406.0 | 396.4 |
| 15 | 254.00 | -48.00 | 0.00 | 51.264 | 11.155 | 6.472 | 284.1 | 648.0 | 423.9 | 411.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -44.00 | 0.00 | 50.652 | 13.577 | 7.909 | 284.4 | 649.5 | 438.1 | 422.4 |
| 17 | 254.00 | -40.00 | 0.00 | 51.390 | 17.317 | 10.062 | 284.0 | 649.5 | 456.3 | 436.0 |
| 18 | 254.00 | -36.00 | 0.00 | 51.821 | 20.846 | 12.183 | 284.1 | 649.0 | 473.7 | 448.8 |
| 19 | 254.00 | -32.00 | 0.00 | 51.561 | 23.825 | 13.839 | 284.3 | 648.9 | 484.7 | 456.1 |
| 20 | 254.00 | -28.00 | 0.00 | 51.261 | 26.957 | 15.756 | 284.5 | 650.5 | 501.0 | 468.2 |
| 21 | 254.00 | -24.00 | 0.00 | 51.305 | 30.166 | 17.507 | 284.5 | 650.7 | 514.1 | 477.1 |
| 22 | 254.00 | -20.00 | 0.00 | 51.773 | 33.186 | 19.208 | 284.4 | 649.0 | 525.6 | 484.6 |
| 23 | 254.00 | -16.00 | 0.00 | 51.622 | 35.205 | 20.442 | 284.1 | 648.2 | 533.9 | 490.2 |
| 24 | 254.00 | -12.00 | 0.00 | 50.952 | 36.051 | 20.969 | 284.1 | 649.6 | 539.3 | 494.3 |
| 25 | 254.00 | -8.00 | 0.00 | 51.393 | 37.260 | 21.558 | 283.9 | 649.2 | 543.2 | 496.7 |
| 26 | 254.00 | -4.00 | 0.00 | 51.767 | 37.881 | 22.041 | 284.3 | 648.1 | 544.7 | 497.4 |
| 27 | 254.00 | 0.00 | 0.00 | 51.947 | 38.144 | 22.120 | 284.2 | 646.1 | 545.8 | 498.2 |
| 28 | 254.00 | 4.00 | 0.00 | 51.086 | 37.341 | 21.633 | 284.3 | 647.8 | 546.5 | 499.6 |
| 29 | 254.00 | 8.00 | 0.00 | 50.941 | 36.634 | 21.375 | 284.1 | 649.8 | 543.1 | 497.2 |
| 30 | 254.00 | 12.00 | 0.00 | 51.450 | 36.617 | 21.256 | 284.3 | 648.4 | 539.0 | 493.5 |
| 31 | 254.00 | 16.00 | 0.00 | 52.187 | 35.155 | 20.439 | 284.2 | 647.1 | 529.7 | 486.4 |
| 32 | 254.00 | 20.00 | 0.00 | 51.437 | 32.340 | 18.751 | 284.4 | 648.4 | 519.6 | 479.9 |

File : TAB350T 1-MAR-89
1-MAR-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 644 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 7
C2 : HORIZONTAL
C3 : -2MM
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.544 kPa

Mean gauged plenum pressure : 51.248 kPa
RMS gauged plenum pressure : 0.275 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | -110.00 | -2.00 | 51.196 | 0.171 | 0.095 | 280.7 | 643.0 | 304.4 | 304.2 |
| 3 | 355.60 | -105.00 | -2.00 | 51.443 | 0.194 | 0.111 | 280.7 | 642.1 | 305.1 | 304.9 |
| 4 | 355.60 | -100.00 | -2.00 | 51.400 | 0.589 | 0.350 | 280.7 | 643.0 | 314.2 | 313.7 |
| 5 | 355.60 | -95.00 | -2.00 | 51.060 | 0.959 | 0.579 | 280.6 | 643.1 | 322.0 | 321.1 |
| 6 | 355.60 | -90.00 | -2.00 | 51.213 | 1.616 | 1.056 | 280.7 | 644.0 | 331.6 | 330.1 |
| 7 | 355.60 | -85.00 | -2.00 | 51.635 | 2.254 | 1.406 | 280.6 | 642.4 | 338.3 | 336.1 |
| 8 | 355.60 | -80.00 | -2.00 | 51.188 | 3.098 | 1.803 | 280.6 | 642.5 | 344.5 | 341.5 |
| 9 | 355.60 | -75.00 | -2.00 | 51.137 | 4.189 | 2.444 | 280.5 | 641.6 | 354.4 | 350.2 |
| 10 | 355.60 | -70.00 | -2.00 | 51.110 | 5.409 | 3.153 | 280.6 | 644.5 | 365.9 | 360.4 |
| 11 | 355.60 | -65.00 | -2.00 | 51.446 | 6.632 | 3.905 | 280.5 | 644.3 | 376.4 | 369.5 |
| 12 | 355.60 | -60.00 | -2.00 | 51.417 | 8.184 | 4.745 | 280.6 | 643.0 | 386.1 | 377.5 |
| 13 | 355.60 | -55.00 | -2.00 | 51.315 | 9.621 | 5.671 | 280.6 | 643.0 | 396.0 | 385.7 |
| 14 | 355.60 | -50.00 | -2.00 | 51.013 | 11.343 | 6.554 | 280.6 | 643.3 | 406.9 | 394.5 |
| 15 | 355.60 | -45.00 | -2.00 | 50.800 | 12.864 | 7.399 | 280.6 | 643.4 | 418.5 | 404.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | -40.00 | -2.00 | 51.385 | 14.812 | 8.646 | 280.5 | 642.0 | 428.8 | 412.2 |
| 17 | 355.60 | -35.00 | -2.00 | 51.474 | 16.834 | 9.768 | 280.6 | 640.4 | 441.0 | 421.8 |
| 18 | 355.60 | -30.00 | -2.00 | 50.997 | 18.562 | 10.780 | 280.6 | 641.7 | 449.8 | 428.4 |
| 19 | 355.60 | -25.00 | -2.00 | 51.007 | 20.449 | 11.940 | 280.6 | 641.2 | 458.3 | 434.6 |
| 20 | 355.60 | -20.00 | -2.00 | 51.619 | 22.843 | 13.197 | 280.7 | 640.6 | 469.0 | 442.3 |
| 21 | 355.60 | -15.00 | -2.00 | 51.627 | 24.001 | 13.969 | 280.7 | 640.7 | 476.7 | 448.4 |
| 22 | 355.60 | -10.00 | -2.00 | 50.992 | 24.510 | 14.233 | 280.7 | 641.5 | 478.8 | 449.8 |
| 23 | 355.60 | -5.00 | -2.00 | 51.134 | 25.291 | 14.651 | 280.7 | 641.0 | 481.3 | 451.4 |
| 24 | 355.60 | 0.00 | -2.00 | 51.503 | 25.331 | 14.740 | 280.7 | 641.1 | 481.6 | 451.6 |
| 25 | 355.60 | 5.00 | -2.00 | 51.421 | 25.362 | 14.617 | 280.6 | 641.5 | 480.0 | 450.1 |
| 26 | 355.60 | 10.00 | -2.00 | 51.091 | 24.426 | 14.170 | 280.6 | 641.7 | 478.3 | 449.4 |
| 27 | 355.60 | 15.00 | -2.00 | 50.893 | 23.456 | 13.576 | 280.5 | 642.3 | 472.8 | 445.2 |
| 28 | 355.60 | 20.00 | -2.00 | 50.981 | 22.188 | 12.852 | 280.4 | 642.3 | 465.8 | 439.9 |
| 29 | 355.60 | 25.00 | -2.00 | 51.312 | 20.531 | 11.865 | 280.4 | 641.1 | 457.4 | 433.6 |
| 30 | 355.60 | 30.00 | -2.00 | 51.291 | 18.086 | 10.518 | 280.4 | 640.1 | 445.7 | 425.0 |
| 31 | 355.60 | 35.00 | -2.00 | 51.085 | 15.424 | 8.910 | 280.4 | 640.9 | 434.5 | 417.0 |
| 32 | 355.60 | 40.00 | -2.00 | 51.166 | 13.028 | 7.515 | 280.5 | 640.4 | 421.0 | 406.5 |
| 33 | 355.60 | 45.00 | -2.00 | 51.532 | 10.669 | 6.208 | 280.5 | 638.7 | 407.3 | 395.6 |
| 34 | 355.60 | 50.00 | -2.00 | 51.246 | 8.369 | 4.896 | 280.5 | 638.7 | 392.6 | 383.6 |
| 35 | 355.60 | 55.00 | -2.00 | 50.894 | 6.730 | 3.882 | 280.4 | 639.3 | 382.4 | 375.3 |
| 36 | 355.60 | 60.00 | -2.00 | 51.050 | 5.342 | 3.267 | 280.5 | 638.5 | 371.9 | 366.4 |
| 37 | 355.60 | 65.00 | -2.00 | 51.651 | 4.300 | 2.616 | 280.5 | 637.9 | 361.1 | 356.7 |
| 38 | 355.60 | 70.00 | -2.00 | 51.406 | 3.219 | 1.857 | 280.5 | 639.3 | 349.9 | 346.7 |
| 39 | 355.60 | 75.00 | -2.00 | 51.036 | 2.086 | 1.324 | 280.5 | 641.5 | 338.3 | 336.3 |
| 40 | 355.60 | 80.00 | -2.00 | 51.115 | 1.472 | 1.005 | 280.4 | 642.7 | 330.6 | 329.2 |
| 41 | 355.60 | 85.00 | -2.00 | 51.078 | 1.337 | 0.776 | 280.3 | 643.3 | 325.5 | 324.3 |
| 42 | 355.60 | 90.00 | -2.00 | 51.542 | 0.734 | 0.477 | 280.4 | 642.5 | 320.3 | 319.6 |
| 43 | 355.60 | 95.00 | -2.00 | 51.609 | 0.283 | 0.226 | 280.4 | 641.3 | 310.9 | 310.6 |
| 44 | 355.60 | 100.00 | -2.00 | 51.083 | 0.213 | 0.135 | 280.4 | 641.7 | 308.1 | 307.9 |
| 45 | 355.60 | 105.00 | -2.00 | 51.030 | 0.046 | 0.053 | 280.4 | 641.9 | 301.7 | 301.7 |
| 46 | 355.60 | 110.00 | -2.00 | 51.613 | 0.014 | 0.016 | 280.4 | 639.6 | 295.3 | 295.3 |

File : TAB349T 1-MAR-89
1-MAR-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 644 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 7
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.578 kPa

Mean gauged plenum pressure : 51.265 kPa
RMS gauged plenum pressure : 0.305 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | 0.00 | -60.00 | 51.778 | 0.025 | 0.013 | 278.8 | 640.3 | 308.2 | 308.2 |
| 3 | 355.60 | 0.00 | -58.00 | 51.382 | 0.059 | 0.040 | 278.9 | 639.8 | 309.3 | 309.2 |
| 4 | 355.60 | 0.00 | -56.00 | 50.889 | 0.170 | 0.095 | 278.9 | 641.1 | 313.3 | 313.1 |
| 5 | 355.60 | 0.00 | -54.00 | 51.197 | 0.277 | 0.128 | 279.0 | 647.8 | 318.8 | 318.5 |
| 6 | 355.60 | 0.00 | -52.00 | 51.383 | 0.401 | 0.261 | 279.0 | 647.3 | 324.7 | 324.3 |
| 7 | 355.60 | 0.00 | -50.00 | 51.528 | 0.635 | 0.363 | 279.0 | 645.1 | 330.0 | 329.4 |
| 8 | 355.60 | 0.00 | -48.00 | 51.037 | 0.827 | 0.483 | 279.1 | 645.4 | 336.4 | 335.6 |
| 9 | 355.60 | 0.00 | -46.00 | 51.210 | 1.187 | 0.678 | 279.1 | 645.1 | 341.7 | 340.5 |
| 10 | 355.60 | 0.00 | -44.00 | 51.148 | 1.597 | 0.932 | 279.2 | 644.7 | 348.1 | 346.5 |
| 11 | 355.60 | 0.00 | -42.00 | 51.538 | 2.070 | 1.145 | 279.4 | 642.3 | 354.9 | 352.8 |
| 12 | 355.60 | 0.00 | -40.00 | 51.059 | 2.562 | 1.494 | 279.5 | 643.4 | 362.9 | 360.3 |
| 13 | 355.60 | 0.00 | -38.00 | 51.220 | 3.210 | 1.936 | 279.4 | 643.5 | 370.2 | 366.8 |
| 14 | 355.60 | 0.00 | -36.00 | 50.896 | 3.823 | 2.243 | 279.5 | 642.7 | 375.5 | 371.5 |
| 15 | 355.60 | 0.00 | -34.00 | 51.199 | 4.739 | 2.700 | 279.5 | 641.0 | 383.5 | 378.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | 0.00 | -32.00 | 51.586 | 5.810 | 3.425 | 279.5 | 643.5 | 393.3 | 387.0 |
| 17 | 355.60 | 0.00 | -30.00 | 51.176 | 6.672 | 3.967 | 279.6 | 645.4 | 402.6 | 395.2 |
| 18 | 355.60 | 0.00 | -28.00 | 50.904 | 7.885 | 4.531 | 279.6 | 647.4 | 410.5 | 401.7 |
| 19 | 355.60 | 0.00 | -26.00 | 51.528 | 9.237 | 5.345 | 279.6 | 645.1 | 418.0 | 407.5 |
| 20 | 355.60 | 0.00 | -24.00 | 51.520 | 10.759 | 6.207 | 279.6 | 643.8 | 425.9 | 413.6 |
| 21 | 355.60 | 0.00 | -22.00 | 51.296 | 12.188 | 7.038 | 279.7 | 643.9 | 431.1 | 417.1 |
| 22 | 355.60 | 0.00 | -20.00 | 50.835 | 13.592 | 7.850 | 279.7 | 644.4 | 438.2 | 422.5 |
| 23 | 355.60 | 0.00 | -18.00 | 51.363 | 15.461 | 8.981 | 279.7 | 643.0 | 445.9 | 427.9 |
| 24 | 355.60 | 0.00 | -16.00 | 51.445 | 17.464 | 10.048 | 279.8 | 641.4 | 455.7 | 435.2 |
| 25 | 355.60 | 0.00 | -14.00 | 51.607 | 19.488 | 11.326 | 279.8 | 640.4 | 460.5 | 437.7 |
| 26 | 355.60 | 0.00 | -12.00 | 51.063 | 20.792 | 12.086 | 279.7 | 641.2 | 466.7 | 442.2 |
| 27 | 355.60 | 0.00 | -10.00 | 51.356 | 22.330 | 13.119 | 279.7 | 640.5 | 472.1 | 445.7 |
| 28 | 355.60 | 0.00 | -8.00 | 51.281 | 23.748 | 13.738 | 279.7 | 631.5 | 470.2 | 442.5 |
| 29 | 355.60 | 0.00 | -6.00 | 51.427 | 24.623 | 14.244 | 279.7 | 640.4 | 479.6 | 450.5 |
| 30 | 355.60 | 0.00 | -4.00 | 51.000 | 24.912 | 14.556 | 279.7 | 645.0 | 483.3 | 453.7 |
| 31 | 355.60 | 0.00 | -2.00 | 51.149 | 25.136 | 14.623 | 279.7 | 645.7 | 482.9 | 453.0 |
| 32 | 355.60 | 0.00 | 0.00 | 51.530 | 25.140 | 14.582 | 279.6 | 644.6 | 482.1 | 452.3 |
| 33 | 355.60 | 0.00 | 2.00 | 51.607 | 24.381 | 14.176 | 279.5 | 644.3 | 480.9 | 451.9 |
| 34 | 355.60 | 0.00 | 4.00 | 51.118 | 23.183 | 13.509 | 279.5 | 645.5 | 476.6 | 449.1 |
| 35 | 355.60 | 0.00 | 6.00 | 50.978 | 21.747 | 12.584 | 279.5 | 646.1 | 470.8 | 445.1 |
| 36 | 355.60 | 0.00 | 8.00 | 51.504 | 20.593 | 11.852 | 279.4 | 644.6 | 465.6 | 441.4 |
| 37 | 355.60 | 0.00 | 10.00 | 51.566 | 18.778 | 10.862 | 279.4 | 643.9 | 459.4 | 437.4 |

File : TAB332T 23-FEB-89
23-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 627 K
DRPTAB, PLTTAB
000-0

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.968 kPa

Mean gauged plenum pressure : 50.871 kPa
RMS gauged plenum pressure : 0.287 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 50.668 | 0.322 | 0.189 | 272.8 | 629.7 | 302.9 | 302.6 |
| 3 | 457.20 | -105.00 | 0.00 | 50.978 | 0.491 | 0.409 | 272.8 | 628.9 | 304.5 | 304.1 |
| 4 | 457.20 | -100.00 | 0.00 | 51.188 | 0.881 | 0.553 | 272.7 | 627.5 | 314.0 | 313.2 |
| 5 | 457.20 | -95.00 | 0.00 | 50.730 | 1.136 | 0.651 | 272.7 | 626.9 | 316.7 | 315.7 |
| 6 | 457.20 | -90.00 | 0.00 | 50.567 | 1.567 | 0.998 | 272.7 | 624.9 | 322.6 | 321.1 |
| 7 | 457.20 | -85.00 | 0.00 | 50.680 | 2.264 | 1.279 | 272.6 | 627.1 | 328.5 | 326.4 |
| 8 | 457.20 | -80.00 | 0.00 | 51.073 | 2.690 | 1.573 | 272.7 | 627.5 | 333.2 | 330.6 |
| 9 | 457.20 | -75.00 | 0.00 | 51.011 | 3.570 | 2.146 | 272.6 | 627.1 | 340.8 | 337.3 |
| 10 | 457.20 | -70.00 | 0.00 | 50.786 | 4.540 | 2.606 | 272.6 | 626.0 | 349.2 | 344.7 |
| 11 | 457.20 | -65.00 | 0.00 | 50.585 | 5.285 | 3.085 | 272.6 | 625.5 | 356.0 | 350.7 |
| 12 | 457.20 | -60.00 | 0.00 | 50.512 | 6.144 | 3.589 | 272.6 | 625.6 | 362.3 | 356.1 |
| 13 | 457.20 | -55.00 | 0.00 | 50.875 | 7.404 | 4.268 | 272.5 | 625.3 | 371.6 | 364.0 |
| 14 | 457.20 | -50.00 | 0.00 | 51.174 | 8.438 | 4.948 | 272.5 | 623.9 | 376.5 | 367.8 |
| 15 | 457.20 | -45.00 | 0.00 | 50.927 | 9.444 | 5.476 | 272.5 | 622.6 | 382.8 | 372.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 50.710 | 10.672 | 6.190 | 272.5 | 621.6 | 393.5 | 382.1 |
| 17 | 457.20 | -35.00 | 0.00 | 50.584 | 11.812 | 6.822 | 272.5 | 625.9 | 402.0 | 389.2 |
| 18 | 457.20 | -30.00 | 0.00 | 51.153 | 12.786 | 7.464 | 272.4 | 624.9 | 404.5 | 390.7 |
| 19 | 457.20 | -25.00 | 0.00 | 50.928 | 14.082 | 8.137 | 272.4 | 624.5 | 412.8 | 397.4 |
| 20 | 457.20 | -20.00 | 0.00 | 51.142 | 15.115 | 8.704 | 272.5 | 623.5 | 418.2 | 401.5 |
| 21 | 457.20 | -15.00 | 0.00 | 50.868 | 15.703 | 9.113 | 272.6 | 623.0 | 420.7 | 403.4 |
| 22 | 457.20 | -10.00 | 0.00 | 50.783 | 16.299 | 9.477 | 272.6 | 624.7 | 426.5 | 408.3 |
| 23 | 457.20 | -5.00 | 0.00 | 51.075 | 16.735 | 9.672 | 272.7 | 623.8 | 427.3 | 408.7 |
| 24 | 457.20 | 0.00 | 0.00 | 50.997 | 16.937 | 9.813 | 272.7 | 622.9 | 428.0 | 409.1 |
| 25 | 457.20 | 5.00 | 0.00 | 51.434 | 17.198 | 9.904 | 272.7 | 620.9 | 425.9 | 406.8 |
| 26 | 457.20 | 10.00 | 0.00 | 50.695 | 16.443 | 9.677 | 272.6 | 621.4 | 425.1 | 406.8 |
| 27 | 457.20 | 15.00 | 0.00 | 50.394 | 15.955 | 9.257 | 272.6 | 622.1 | 422.2 | 404.5 |
| 28 | 457.20 | 20.00 | 0.00 | 50.983 | 15.512 | 8.969 | 272.7 | 620.9 | 418.3 | 401.2 |

File : TAB331T 23-FEB-89
23-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 625 K
DRPTAB, PLTTAB
000-0

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.002 kPa

Mean gauged plenum pressure : 50.952 kPa
RMS gauged plenum pressure : 0.287 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.199 | 0.653 | 0.365 | 271.5 | 623.2 | 317.2 | 316.6 |
| 3 | 457.20 | 0.00 | -58.00 | 51.007 | 0.686 | 0.382 | 271.4 | 623.2 | 319.5 | 318.9 |
| 4 | 457.20 | 0.00 | -56.00 | 50.890 | 0.797 | 0.460 | 271.7 | 621.8 | 321.2 | 320.5 |
| 5 | 457.20 | 0.00 | -54.00 | 50.657 | 0.975 | 0.557 | 271.6 | 622.5 | 326.4 | 325.5 |
| 6 | 457.20 | 0.00 | -52.00 | 51.032 | 1.318 | 0.768 | 271.6 | 622.5 | 329.5 | 328.2 |
| 7 | 457.20 | 0.00 | -50.00 | 50.753 | 1.447 | 0.839 | 271.6 | 626.2 | 334.2 | 332.8 |
| 8 | 457.20 | 0.00 | -48.00 | 51.049 | 1.854 | 1.095 | 271.7 | 624.6 | 340.6 | 338.8 |
| 9 | 457.20 | 0.00 | -46.00 | 51.108 | 2.091 | 1.219 | 271.7 | 623.3 | 341.2 | 339.2 |
| 10 | 457.20 | 0.00 | -44.00 | 50.663 | 2.446 | 1.444 | 271.5 | 623.9 | 344.8 | 342.4 |
| 11 | 457.20 | 0.00 | -42.00 | 51.086 | 2.877 | 1.688 | 271.4 | 622.8 | 351.4 | 348.5 |
| 12 | 457.20 | 0.00 | -40.00 | 51.086 | 3.393 | 1.987 | 271.6 | 621.4 | 355.5 | 352.1 |
| 13 | 457.20 | 0.00 | -38.00 | 51.040 | 3.727 | 2.172 | 271.6 | 620.6 | 358.5 | 354.7 |
| 14 | 457.20 | 0.00 | -36.00 | 50.888 | 4.264 | 2.546 | 271.7 | 619.1 | 363.5 | 359.1 |
| 15 | 457.20 | 0.00 | -34.00 | 50.762 | 4.837 | 2.807 | 271.5 | 620.5 | 367.8 | 362.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -32.00 | 51.106 | 5.491 | 3.235 | 271.5 | 619.5 | 371.4 | 365.7 |
| 17 | 457.20 | 0.00 | -30.00 | 51.106 | 6.052 | 3.514 | 271.8 | 619.8 | 376.2 | 369.8 |
| 18 | 457.20 | 0.00 | -28.00 | 51.151 | 6.756 | 3.927 | 271.9 | 618.7 | 381.0 | 373.9 |
| 19 | 457.20 | 0.00 | -26.00 | 50.956 | 7.651 | 4.399 | 271.9 | 619.2 | 385.7 | 377.6 |
| 20 | 457.20 | 0.00 | -24.00 | 50.915 | 8.204 | 4.801 | 271.9 | 619.1 | 389.0 | 380.2 |
| 21 | 457.20 | 0.00 | -22.00 | 51.205 | 9.302 | 5.439 | 272.1 | 618.7 | 394.7 | 384.7 |
| 22 | 457.20 | 0.00 | -20.00 | 51.094 | 10.252 | 5.980 | 272.2 | 618.3 | 399.0 | 387.9 |
| 23 | 457.20 | 0.00 | -18.00 | 51.147 | 11.173 | 6.438 | 272.2 | 620.6 | 404.3 | 392.1 |
| 24 | 457.20 | 0.00 | -16.00 | 50.861 | 11.900 | 6.956 | 272.3 | 622.7 | 409.2 | 396.1 |
| 25 | 457.20 | 0.00 | -14.00 | 50.775 | 12.756 | 7.455 | 272.3 | 623.5 | 411.3 | 397.3 |
| 26 | 457.20 | 0.00 | -12.00 | 51.170 | 13.947 | 7.991 | 272.4 | 620.9 | 416.6 | 401.2 |
| 27 | 457.20 | 0.00 | -10.00 | 50.957 | 14.473 | 8.437 | 272.5 | 623.1 | 418.2 | 402.2 |
| 28 | 457.20 | 0.00 | -8.00 | 50.808 | 15.289 | 8.834 | 272.5 | 622.7 | 421.9 | 404.9 |
| 29 | 457.20 | 0.00 | -6.00 | 50.637 | 15.736 | 9.111 | 272.6 | 621.5 | 423.4 | 405.9 |
| 30 | 457.20 | 0.00 | -4.00 | 50.847 | 16.471 | 9.579 | 272.6 | 622.1 | 426.7 | 408.4 |
| 31 | 457.20 | 0.00 | -2.00 | 51.043 | 16.754 | 9.717 | 272.6 | 623.6 | 427.2 | 408.5 |
| 32 | 457.20 | 0.00 | 0.00 | 51.064 | 17.066 | 9.894 | 272.6 | 622.3 | 426.2 | 407.3 |
| 33 | 457.20 | 0.00 | 2.00 | 51.167 | 16.897 | 9.776 | 272.5 | 622.7 | 425.9 | 407.2 |
| 34 | 457.20 | 0.00 | 4.00 | 50.857 | 16.762 | 9.741 | 272.5 | 623.9 | 428.4 | 409.7 |
| 35 | 457.20 | 0.00 | 6.00 | 50.702 | 16.401 | 9.461 | 272.4 | 624.9 | 427.0 | 408.7 |
| 36 | 457.20 | 0.00 | 8.00 | 51.190 | 15.922 | 9.307 | 272.4 | 623.3 | 424.2 | 406.5 |
| 37 | 457.20 | 0.00 | 10.00 | 51.147 | 15.398 | 8.994 | 272.4 | 623.3 | 421.4 | 404.3 |

File : TAB346T 28-FEB-89
28-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 644 K
DRPTAB, PLTTAB, -14 DEG
000-0

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.494 kPa

Mean gauged plenum pressure : 50.818 kPa
RMS gauged plenum pressure : 0.368 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.024 | 0.188 | 0.103 | 279.9 | 642.7 | 308.2 | 308.0 |
| 3 | 457.20 | -105.00 | 0.00 | 51.045 | 0.368 | 0.220 | 280.0 | 642.6 | 309.8 | 309.5 |
| 4 | 457.20 | -100.00 | 0.00 | 50.576 | 0.453 | 0.248 | 280.2 | 640.4 | 313.4 | 313.0 |
| 5 | 457.20 | -95.00 | 0.00 | 50.493 | 0.741 | 0.483 | 280.2 | 639.7 | 318.6 | 317.9 |
| 6 | 457.20 | -90.00 | 0.00 | 50.486 | 1.553 | 0.850 | 280.3 | 639.3 | 328.7 | 327.2 |
| 7 | 457.20 | -85.00 | 0.00 | 50.922 | 1.502 | 0.875 | 280.3 | 637.2 | 330.3 | 328.9 |
| *8* | *457.20* | *-80.00* | *0.00* | *50.840* | *2.274* | *1.227* | *280.3* | *639.5* | *339.4* | *337.2* |
| 9 | 457.20 | -75.00 | 0.00 | 50.556 | 2.899 | 1.684 | 280.2 | 645.4 | 348.2 | 345.3 |
| 10 | 457.20 | -70.00 | 0.00 | 50.683 | 3.645 | 2.045 | 280.3 | 645.7 | 353.4 | 349.7 |
| 11 | 457.20 | -65.00 | 0.00 | 49.755 | 4.440 | 2.560 | 280.3 | 644.8 | 361.2 | 356.7 |
| 12 | 457.20 | -60.00 | 0.00 | 50.435 | 5.119 | 2.983 | 280.3 | 645.9 | 367.0 | 361.7 |
| 13 | 457.20 | -55.00 | 0.00 | 50.730 | 6.155 | 3.570 | 280.4 | 647.4 | 375.2 | 368.7 |
| 14 | 457.20 | -50.00 | 0.00 | 51.204 | 7.779 | 4.428 | 280.7 | 639.2 | 384.9 | 376.6 |
| 15 | 457.20 | -45.00 | 0.00 | 51.081 | 8.782 | 5.223 | 280.6 | 639.8 | 390.6 | 381.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.194 | 9.767 | 5.787 | 280.6 | 640.3 | 399.1 | 388.4 |
| 17 | 457.20 | -35.00 | 0.00 | 50.983 | 11.168 | 6.440 | 280.7 | 638.7 | 406.4 | 394.1 |
| 18 | 457.20 | -30.00 | 0.00 | 50.928 | 12.370 | 7.217 | 280.7 | 642.4 | 414.9 | 401.1 |
| 19 | 457.20 | -25.00 | 0.00 | 50.968 | 13.614 | 7.837 | 280.7 | 642.5 | 422.2 | 406.9 |
| 20 | 457.20 | -20.00 | 0.00 | 51.018 | 14.824 | 8.529 | 280.7 | 640.0 | 426.1 | 409.4 |
| 21 | 457.20 | -15.00 | 0.00 | 51.065 | 15.671 | 9.097 | 280.8 | 637.4 | 432.3 | 414.5 |
| 22 | 457.20 | -10.00 | 0.00 | 50.803 | 16.251 | 9.383 | 280.9 | 641.3 | 436.6 | 418.0 |
| 23 | 457.20 | -5.00 | 0.00 | 50.977 | 16.702 | 9.771 | 280.7 | 642.0 | 438.3 | 419.2 |
| 24 | 457.20 | 0.00 | 0.00 | 50.778 | 16.885 | 9.815 | 280.7 | 643.2 | 440.8 | 421.4 |
| 25 | 457.20 | 5.00 | 0.00 | 51.211 | 16.828 | 9.770 | 280.7 | 642.7 | 439.5 | 420.2 |
| 26 | 457.20 | 10.00 | 0.00 | 50.871 | 16.472 | 9.590 | 280.7 | 641.4 | 435.7 | 416.9 |
| 27 | 457.20 | 15.00 | 0.00 | 51.080 | 15.957 | 9.207 | 280.7 | 640.1 | 432.8 | 414.7 |
| 28 | 457.20 | 20.00 | 0.00 | 50.831 | 14.964 | 8.680 | 280.7 | 639.6 | 428.8 | 411.8 |

File : TAB356T 2-MAR-89
2-MAR-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 655 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 13
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.765 kPa

Mean gauged plenum pressure : 51.097 kPa
RMS gauged plenum pressure : 0.292 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 660.40 | 0.00 | 0.00 | 51.033 | 8.645 | 5.025 | 284.7 | 655.3 | 395.8 | 386.4 |
| 2 | 660.40 | -160.00 | 0.00 | 51.428 | 0.014 | 0.012 | 284.6 | 654.3 | 299.8 | 299.8 |
| 3 | 660.40 | -152.00 | 0.00 | 51.325 | 0.014 | 0.012 | 284.6 | 654.5 | 296.5 | 296.5 |
| 4 | 660.40 | -144.00 | 0.00 | 50.901 | 0.025 | 0.032 | 284.6 | 654.8 | 300.2 | 300.2 |
| 5 | 660.40 | -136.00 | 0.00 | 50.764 | 0.098 | 0.065 | 284.6 | 655.8 | 304.6 | 304.5 |
| 6 | 660.40 | -128.00 | 0.00 | 51.096 | 0.185 | 0.122 | 284.6 | 654.3 | 309.2 | 309.0 |
| 7 | 660.40 | -120.00 | 0.00 | 51.357 | 0.331 | 0.243 | 284.7 | 652.7 | 315.0 | 314.7 |
| 8 | 660.40 | -112.00 | 0.00 | 51.275 | 0.653 | 0.397 | 284.6 | 652.5 | 320.2 | 319.6 |
| 9 | 660.40 | -104.00 | 0.00 | 50.760 | 0.915 | 0.546 | 284.6 | 653.0 | 325.8 | 324.9 |
| 10 | 660.40 | -96.00 | 0.00 | 51.148 | 1.371 | 0.778 | 284.5 | 651.9 | 331.0 | 329.7 |
| 11 | 660.40 | -88.00 | 0.00 | 51.279 | 2.058 | 1.181 | 284.5 | 650.0 | 338.6 | 336.6 |
| 12 | 660.40 | -80.00 | 0.00 | 51.316 | 2.461 | 1.461 | 284.5 | 648.8 | 344.9 | 342.5 |
| 13 | 660.40 | -72.00 | 0.00 | 50.972 | 3.222 | 1.874 | 284.5 | 651.3 | 353.3 | 350.1 |
| 14 | 660.40 | -64.00 | 0.00 | 50.356 | 3.942 | 2.338 | 284.5 | 650.3 | 358.8 | 354.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 660.40 | -56.00 | 0.00 | 51.003 | 4.830 | 2.822 | 284.5 | 654.1 | 366.2 | 361.2 |
| 16 | 660.40 | -48.00 | 0.00 | 51.310 | 5.627 | 3.297 | 284.5 | 654.9 | 372.6 | 366.7 |
| 17 | 660.40 | -40.00 | 0.00 | 51.055 | 6.560 | 3.779 | 284.5 | 653.9 | 379.3 | 372.4 |
| 18 | 660.40 | -32.00 | 0.00 | 51.443 | 7.204 | 4.164 | 284.4 | 652.6 | 384.0 | 376.3 |
| 19 | 660.40 | -24.00 | 0.00 | 51.393 | 7.853 | 4.580 | 284.4 | 652.4 | 388.4 | 380.0 |
| 20 | 660.40 | -16.00 | 0.00 | 50.732 | 8.174 | 4.697 | 284.4 | 653.9 | 391.9 | 383.1 |
| 21 | 660.40 | -8.00 | 0.00 | 51.376 | 8.645 | 5.036 | 284.5 | 652.2 | 393.8 | 384.4 |
| 22 | 660.40 | 0.00 | 0.00 | 51.348 | 8.787 | 5.086 | 284.4 | 648.4 | 394.6 | 385.1 |
| 23 | 660.40 | 8.00 | 0.00 | 51.196 | 8.647 | 5.023 | 284.4 | 648.0 | 393.1 | 383.8 |
| 24 | 660.40 | 16.00 | 0.00 | 50.670 | 8.281 | 4.845 | 284.5 | 646.7 | 391.9 | 383.0 |
| 25 | 660.40 | 24.00 | 0.00 | 50.797 | 7.834 | 4.568 | 284.4 | 649.4 | 390.1 | 381.7 |
| 26 | 660.40 | 32.00 | 0.00 | 51.149 | 7.316 | 4.299 | 284.4 | 653.4 | 386.1 | 378.3 |
| 27 | 660.40 | 40.00 | 0.00 | 51.151 | 6.530 | 3.814 | 284.4 | 654.1 | 381.6 | 374.7 |
| 28 | 660.40 | 48.00 | 0.00 | 51.189 | 5.748 | 3.359 | 284.4 | 654.5 | 376.2 | 370.1 |
| 29 | 660.40 | 56.00 | 0.00 | 51.149 | 4.967 | 2.801 | 284.4 | 654.8 | 368.4 | 363.2 |
| 30 | 660.40 | 64.00 | 0.00 | 50.913 | 4.109 | 2.438 | 284.3 | 655.3 | 364.0 | 359.8 |
| 31 | 660.40 | 72.00 | 0.00 | 51.197 | 3.065 | 1.757 | 284.4 | 653.4 | 353.0 | 349.9 |
| 32 | 660.40 | 80.00 | 0.00 | 51.083 | 2.625 | 1.489 | 284.4 | 652.6 | 347.9 | 345.3 |
| 33 | 660.40 | 88.00 | 0.00 | 51.217 | 1.728 | 1.053 | 284.3 | 652.8 | 340.3 | 338.6 |
| 34 | 660.40 | 96.00 | 0.00 | 50.788 | 1.352 | 0.850 | 284.3 | 654.1 | 335.7 | 334.4 |
| 35 | 660.40 | 104.00 | 0.00 | 50.736 | 0.852 | 0.528 | 284.3 | 654.8 | 328.0 | 327.2 |
| 36 | 660.40 | 112.00 | 0.00 | 51.285 | 0.656 | 0.399 | 284.3 | 652.5 | 322.7 | 322.1 |
| 37 | 660.40 | 120.00 | 0.00 | 51.278 | 0.386 | 0.211 | 284.3 | 651.2 | 317.2 | 316.8 |
| 38 | 660.40 | 128.00 | 0.00 | 51.033 | 0.176 | 0.099 | 284.3 | 650.7 | 311.6 | 311.4 |
| 39 | 660.40 | 136.00 | 0.00 | 50.863 | 0.060 | 0.069 | 284.2 | 651.6 | 306.5 | 306.4 |
| 40 | 660.40 | 144.00 | 0.00 | 51.083 | 0.033 | 0.044 | 284.2 | 651.2 | 302.5 | 302.5 |
| 41 | 660.40 | 152.00 | 0.00 | 51.421 | 0.013 | 0.019 | 284.2 | 649.0 | 297.7 | 297.7 |
| 42 | 660.40 | 160.00 | 0.00 | 51.561 | 0.012 | 0.017 | 284.3 | 647.2 | 293.5 | 293.5 |

File : TAB355T 2-MAR-89
2-MAR-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 655 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 13
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.765 kPa

Mean gauged plenum pressure : 51.099 kPa
RMS gauged plenum pressure : 0.350 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | 0.00 | -120.00 | 51.366 | 0.024 | 0.012 | 284.9 | 652.3 | 303.0 | 303.0 |
| 3 | 660.40 | 0.00 | -116.00 | 51.438 | 0.025 | 0.024 | 285.0 | 652.2 | 301.6 | 301.6 |
| 4 | 660.40 | 0.00 | -112.00 | 51.012 | 0.044 | 0.016 | 284.9 | 652.0 | 303.4 | 303.4 |
| 5 | 660.40 | 0.00 | -108.00 | 50.982 | 0.079 | 0.056 | 284.8 | 652.1 | 306.3 | 306.2 |
| 6 | 660.40 | 0.00 | -104.00 | 51.264 | 0.105 | 0.061 | 284.9 | 650.3 | 309.1 | 309.0 |
| 7 | 660.40 | 0.00 | -100.00 | 51.705 | 0.164 | 0.085 | 284.8 | 649.7 | 312.4 | 312.3 |
| 8 | 660.40 | 0.00 | -96.00 | 51.186 | 0.251 | 0.136 | 284.9 | 651.0 | 315.5 | 315.3 |
| 9 | 660.40 | 0.00 | -92.00 | 50.566 | 0.323 | 0.173 | 284.9 | 651.5 | 319.3 | 319.0 |
| 10 | 660.40 | 0.00 | -88.00 | 50.306 | 0.371 | 0.223 | 284.9 | 654.0 | 321.9 | 321.6 |
| 11 | 660.40 | 0.00 | -84.00 | 50.712 | 0.490 | 0.325 | 284.9 | 652.9 | 325.6 | 325.1 |
| 12 | 660.40 | 0.00 | -80.00 | 51.148 | 0.663 | 0.374 | 284.8 | 650.7 | 328.7 | 328.1 |
| 13 | 660.40 | 0.00 | -76.00 | 51.238 | 0.861 | 0.494 | 284.8 | 650.7 | 333.0 | 332.2 |
| 14 | 660.40 | 0.00 | -72.00 | 50.791 | 1.006 | 0.594 | 284.8 | 652.8 | 336.6 | 335.6 |
| 15 | 660.40 | 0.00 | -68.00 | 51.418 | 1.240 | 0.755 | 284.8 | 651.5 | 340.5 | 339.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | 0.00 | -64.00 | 51.324 | 1.594 | 0.906 | 284.8 | 650.2 | 344.1 | 342.5 |
| 17 | 660.40 | 0.00 | -60.00 | 51.347 | 1.873 | 1.094 | 284.8 | 649.0 | 348.8 | 346.9 |
| 18 | 660.40 | 0.00 | -56.00 | 50.733 | 2.219 | 1.283 | 284.8 | 650.9 | 352.5 | 350.3 |
| 19 | 660.40 | 0.00 | -52.00 | 50.671 | 2.570 | 1.459 | 284.8 | 651.7 | 357.3 | 354.7 |
| 20 | 660.40 | 0.00 | -48.00 | 51.074 | 3.019 | 1.774 | 284.8 | 650.7 | 361.2 | 358.1 |
| 21 | 660.40 | 0.00 | -44.00 | 51.606 | 3.589 | 2.091 | 284.8 | 649.1 | 364.3 | 360.6 |
| 22 | 660.40 | 0.00 | -40.00 | 51.040 | 4.005 | 2.315 | 284.7 | 650.1 | 369.8 | 365.6 |
| 23 | 660.40 | 0.00 | -36.00 | 50.535 | 4.608 | 2.637 | 284.7 | 654.6 | 374.4 | 369.5 |
| 24 | 660.40 | 0.00 | -32.00 | 51.150 | 5.254 | 3.022 | 284.7 | 653.9 | 377.9 | 372.3 |
| 25 | 660.40 | 0.00 | -28.00 | 51.212 | 5.928 | 3.397 | 284.8 | 652.5 | 382.4 | 376.1 |
| 26 | 660.40 | 0.00 | -24.00 | 51.510 | 6.480 | 3.757 | 284.7 | 651.6 | 385.0 | 378.0 |
| 27 | 660.40 | 0.00 | -20.00 | 50.961 | 7.121 | 4.133 | 284.7 | 652.5 | 388.1 | 380.4 |
| 28 | 660.40 | 0.00 | -16.00 | 50.591 | 7.538 | 4.327 | 284.7 | 654.3 | 391.1 | 382.9 |
| 29 | 660.40 | 0.00 | -12.00 | 51.460 | 8.108 | 4.714 | 284.7 | 651.4 | 392.0 | 383.2 |
| 30 | 660.40 | 0.00 | -8.00 | 51.289 | 8.488 | 4.936 | 284.7 | 650.4 | 393.0 | 383.8 |
| 31 | 660.40 | 0.00 | -4.00 | 51.157 | 8.700 | 5.015 | 284.7 | 648.7 | 394.4 | 385.0 |
| 32 | 660.40 | 0.00 | 0.00 | 51.131 | 8.735 | 5.043 | 284.7 | 651.9 | 395.1 | 385.6 |
| 33 | 660.40 | 0.00 | 4.00 | 51.073 | 8.692 | 5.016 | 284.7 | 649.6 | 395.6 | 386.2 |
| 34 | 660.40 | 0.00 | 8.00 | 51.484 | 8.464 | 4.890 | 284.8 | 648.1 | 393.3 | 384.1 |
| 35 | 660.40 | 0.00 | 12.00 | 51.381 | 8.118 | 4.708 | 284.7 | 647.4 | 391.4 | 382.6 |
| 36 | 660.40 | 0.00 | 16.00 | 50.798 | 7.474 | 4.342 | 284.8 | 654.3 | 392.3 | 384.2 |
| 37 | 660.40 | 0.00 | 20.00 | 51.011 | 6.913 | 4.042 | 284.8 | 655.7 | 388.8 | 381.3 |

File : TAB185T

16-DEC-88
29-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, BASELINE

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.273 kPa

Mean gauged plenum pressure : 124.744 kPa
RMS gauged plenum pressure : 0.586 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 126.010 | 0.020 | 0.012 | 279.7 | 283.3 | 279.2 | 279.2 |
| 3 | 457.20 | -105.00 | 0.00 | 126.208 | 0.012 | 0.012 | 279.8 | 283.3 | 278.7 | 278.7 |
| 4 | 457.20 | -100.00 | 0.00 | 125.567 | 0.010 | 0.012 | 279.9 | 283.2 | 278.7 | 278.7 |
| 5 | 457.20 | -95.00 | 0.00 | 124.592 | 0.189 | 0.012 | 280.0 | 283.2 | 278.6 | 278.4 |
| 6 | 457.20 | -90.00 | 0.00 | 124.316 | 0.376 | 0.013 | 280.0 | 283.2 | 278.4 | 278.1 |
| 7 | 457.20 | -85.00 | 0.00 | 124.556 | 0.718 | 0.013 | 279.9 | 283.2 | 278.2 | 277.6 |
| 8 | 457.20 | -80.00 | 0.00 | 125.077 | 0.842 | 0.012 | 280.0 | 283.3 | 277.9 | 277.2 |
| 9 | 457.20 | -75.00 | 0.00 | 125.456 | 1.167 | 0.013 | 279.9 | 283.2 | 277.7 | 276.8 |
| 10 | 457.20 | -70.00 | 0.00 | 125.694 | 1.887 | 0.012 | 279.9 | 283.3 | 277.6 | 276.1 |
| 11 | 457.20 | -65.00 | 0.00 | 125.566 | 2.932 | 0.012 | 279.8 | 283.3 | 277.2 | 274.9 |
| 12 | 457.20 | -60.00 | 0.00 | 125.298 | 4.389 | 0.012 | 280.0 | 283.2 | 277.2 | 273.8 |
| 13 | 457.20 | -55.00 | 0.00 | 125.134 | 6.654 | 0.012 | 280.1 | 283.3 | 276.9 | 271.8 |
| 14 | 457.20 | -50.00 | 0.00 | 124.961 | 10.602 | 0.012 | 280.2 | 283.2 | 277.2 | 269.2 |
| 15 | 457.20 | -45.00 | 0.00 | 124.970 | 15.297 | 0.016 | 280.0 | 283.3 | 276.6 | 265.4 |
| 16 | 457.20 | -40.00 | 0.00 | 125.200 | 17.306 | 0.012 | 280.0 | 283.2 | 276.9 | 264.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 125.429 | 20.827 | 0.012 | 280.1 | 283.2 | 277.2 | 262.4 |
| 18 | 457.20 | -30.00 | 0.00 | 125.468 | 26.931 | 0.012 | 280.1 | 283.2 | 272.5 | 254.2 |
| 19 | 457.20 | -25.00 | 0.00 | 125.167 | 33.578 | 0.012 | 280.2 | 283.2 | 0.0 | 0.0 |
| 20 | 457.20 | -20.00 | 0.00 | 124.804 | 40.483 | 0.012 | 280.3 | 283.2 | 278.5 | 252.3 |
| 21 | 457.20 | -15.00 | 0.00 | 124.341 | 45.455 | 0.013 | 280.4 | 283.2 | 282.1 | 253.0 |
| 22 | 457.20 | -10.00 | 0.00 | 124.093 | 49.906 | 0.014 | 280.4 | 283.3 | 277.8 | 247.0 |
| 23 | 457.20 | -5.00 | 0.00 | 124.212 | 52.449 | 0.012 | 280.6 | 283.3 | 280.1 | 247.8 |
| 24 | 457.20 | 0.00 | 0.00 | 124.348 | 53.001 | 0.013 | 280.5 | 283.3 | 272.7 | 241.0 |
| 25 | 457.20 | 5.00 | 0.00 | 124.629 | 51.597 | 0.013 | 280.6 | 283.3 | 89.7 | 79.5 |
| 26 | 457.20 | 10.00 | 0.00 | 124.814 | 48.145 | 0.013 | 280.7 | 283.3 | 284.9 | 254.2 |
| 27 | 457.20 | 15.00 | 0.00 | 124.665 | 43.285 | 0.013 | 280.5 | 283.3 | 289.7 | 260.9 |
| 28 | 457.20 | 20.00 | 0.00 | 124.389 | 37.496 | 0.012 | 280.6 | 283.3 | 260.6 | 237.5 |
| 29 | 457.20 | 25.00 | 0.00 | 124.151 | 31.688 | 0.013 | 280.5 | 283.3 | 90.6 | 83.6 |
| 30 | 457.20 | 30.00 | 0.00 | 123.580 | 25.611 | 0.012 | 280.6 | 283.3 | 269.8 | 252.5 |
| 31 | 457.20 | 35.00 | 0.00 | 123.805 | 20.609 | 0.012 | 280.5 | 283.3 | 277.2 | 262.5 |
| 32 | 457.20 | 40.00 | 0.00 | 124.243 | 16.855 | 0.012 | 280.5 | 283.3 | 276.1 | 263.9 |
| 33 | 457.20 | 45.00 | 0.00 | 124.946 | 11.681 | 0.013 | 280.4 | 283.3 | 277.0 | 268.2 |
| 34 | 457.20 | 50.00 | 0.00 | 124.840 | 9.090 | 0.013 | 280.4 | 283.3 | 277.4 | 270.5 |
| 35 | 457.20 | 55.00 | 0.00 | 124.726 | 6.875 | 0.014 | 280.5 | 283.3 | 277.9 | 272.6 |
| 36 | 457.20 | 60.00 | 0.00 | 124.414 | 4.989 | 0.013 | 280.9 | 283.4 | 278.4 | 274.5 |
| 37 | 457.20 | 65.00 | 0.00 | 124.233 | 3.937 | 0.018 | 280.8 | 283.4 | 278.4 | 275.3 |
| 38 | 457.20 | 70.00 | 0.00 | 124.079 | 2.494 | 0.017 | 280.8 | 283.3 | 278.5 | 276.5 |
| 39 | 457.20 | 75.00 | 0.00 | 124.225 | 1.519 | 0.014 | 280.9 | 283.3 | 278.3 | 277.1 |
| 40 | 457.20 | 80.00 | 0.00 | 124.661 | 0.965 | 0.016 | 280.9 | 283.3 | 278.8 | 278.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.840 | 0.440 | 0.016 | 280.9 | 283.3 | 279.1 | 278.7 |
| 42 | 457.20 | 90.00 | 0.00 | 124.717 | 0.296 | 0.015 | 281.1 | 283.3 | 279.6 | 279.4 |
| 43 | 457.20 | 95.00 | 0.00 | 124.650 | 0.072 | 0.025 | 281.1 | 283.3 | 279.7 | 279.6 |
| 44 | 457.20 | 100.00 | 0.00 | 124.281 | 0.013 | 0.023 | 280.9 | 283.2 | 279.6 | 279.6 |
| 45 | 457.20 | 105.00 | 0.00 | 124.146 | 0.019 | 0.019 | 281.0 | 283.3 | 279.6 | 279.6 |
| 46 | 457.20 | 110.00 | 0.00 | 123.951 | 0.010 | 0.014 | 281.1 | 283.2 | 280.5 | 280.5 |

File : TAB203T

19-DEC-88
1-DEC-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Baseline

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.375 kPa

Mean gauged plenum pressure : 125.712 kPa
RMS gauged plenum pressure : 0.514 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 125.099 | 0.092 | 0.013 | 285.5 | 283.2 | 0.0 | 0.0 |
| 3 | 457.20 | 0.00 | -97.00 | 125.073 | 0.135 | 0.019 | 285.5 | 283.2 | 0.0 | 0.0 |
| 4 | 457.20 | 0.00 | -94.00 | 125.078 | 0.161 | 0.018 | 285.5 | 283.2 | 0.0 | 0.0 |
| 5 | 457.20 | 0.00 | -91.00 | 125.115 | 0.246 | 0.016 | 285.5 | 283.1 | 0.0 | 0.0 |
| 6 | 457.20 | 0.00 | -88.00 | 125.136 | 0.342 | 0.017 | 285.1 | 283.1 | 0.0 | 0.0 |
| 7 | 457.20 | 0.00 | -85.00 | 125.212 | 0.569 | 0.020 | 284.9 | 283.0 | 0.0 | 0.0 |
| 8 | 457.20 | 0.00 | -82.00 | 125.215 | 0.771 | 0.021 | 284.5 | 283.0 | 0.0 | 0.0 |
| 9 | 457.20 | 0.00 | -79.00 | 125.279 | 1.132 | 0.024 | 284.3 | 283.0 | 0.0 | 0.0 |
| 10 | 457.20 | 0.00 | -76.00 | 125.358 | 1.478 | 0.016 | 284.2 | 283.0 | 0.0 | 0.0 |
| 11 | 457.20 | 0.00 | -73.00 | 125.387 | 1.953 | 0.016 | 284.2 | 283.0 | 0.0 | 0.0 |
| 12 | 457.20 | 0.00 | -70.00 | 125.341 | 2.487 | 0.017 | 284.3 | 283.1 | 0.0 | 0.0 |
| 13 | 457.20 | 0.00 | -67.00 | 125.350 | 3.143 | 0.017 | 284.6 | 283.1 | 0.0 | 0.0 |
| 14 | 457.20 | 0.00 | -64.00 | 125.284 | 4.028 | 0.021 | 284.7 | 283.1 | 0.0 | 0.0 |
| 15 | 457.20 | 0.00 | -61.00 | 125.299 | 4.947 | 0.026 | 284.8 | 283.1 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 125.182 | 6.009 | 0.027 | 284.6 | 283.0 | 0.0 | 0.0 |
| 17 | 457.20 | 0.00 | -55.00 | 125.183 | 7.452 | 0.032 | 284.6 | 283.0 | 0.0 | 0.0 |
| 18 | 457.20 | 0.00 | -52.00 | 125.203 | 8.508 | 0.027 | 284.4 | 283.0 | 0.0 | 0.0 |
| 19 | 457.20 | 0.00 | -49.00 | 125.191 | 10.373 | 0.033 | 284.2 | 282.9 | 0.0 | 0.0 |
| 20 | 457.20 | 0.00 | -46.00 | 125.212 | 11.993 | 0.038 | 284.0 | 283.0 | 0.0 | 0.0 |
| 21 | 457.20 | 0.00 | -43.00 | 125.341 | 14.218 | 0.038 | 283.9 | 282.9 | 0.0 | 0.0 |
| 22 | 457.20 | 0.00 | -40.00 | 125.348 | 16.630 | 0.036 | 284.0 | 283.0 | 0.0 | 0.0 |
| 23 | 457.20 | 0.00 | -37.00 | 126.007 | 18.891 | 0.035 | 284.2 | 283.0 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | -34.00 | 126.309 | 21.491 | 0.035 | 284.1 | 283.0 | 0.0 | 0.0 |
| 25 | 457.20 | 0.00 | -31.00 | 126.364 | 24.571 | 0.043 | 283.9 | 283.0 | 0.0 | 0.0 |
| 26 | 457.20 | 0.00 | -28.00 | 126.317 | 27.638 | 0.041 | 284.0 | 283.0 | 0.0 | 0.0 |
| 27 | 457.20 | 0.00 | -25.00 | 126.323 | 30.873 | 0.041 | 284.2 | 283.1 | 0.0 | 0.0 |
| 28 | 457.20 | 0.00 | -22.00 | 126.318 | 34.735 | 0.038 | 284.6 | 283.1 | 0.0 | 0.0 |
| 29 | 457.20 | 0.00 | -19.00 | 126.338 | 38.634 | 0.046 | 284.6 | 283.1 | 0.0 | 0.0 |
| 30 | 457.20 | 0.00 | -16.00 | 126.266 | 42.262 | 0.046 | 284.8 | 283.1 | 0.0 | 0.0 |
| 31 | 457.20 | 0.00 | -13.00 | 126.275 | 45.722 | 0.046 | 284.9 | 283.1 | 0.0 | 0.0 |
| 32 | 457.20 | 0.00 | -10.00 | 126.154 | 48.681 | 0.046 | 284.8 | 283.0 | 0.0 | 0.0 |
| 33 | 457.20 | 0.00 | -7.00 | 126.148 | 51.025 | 0.043 | 285.0 | 283.1 | 0.0 | 0.0 |
| 34 | 457.20 | 0.00 | -4.00 | 126.130 | 52.718 | 0.039 | 285.2 | 283.2 | 0.0 | 0.0 |
| 35 | 457.20 | 0.00 | -1.00 | 126.106 | 53.317 | 0.042 | 285.2 | 283.2 | 0.0 | 0.0 |
| 36 | 457.20 | 0.00 | 2.00 | 126.102 | 52.916 | 0.040 | 285.3 | 283.2 | 0.0 | 0.0 |
| 37 | 457.20 | 0.00 | 5.00 | 126.123 | 51.445 | 0.041 | 285.2 | 283.2 | 0.0 | 0.0 |
| 38 | 457.20 | 0.00 | 8.00 | 126.143 | 49.247 | 0.034 | 285.1 | 283.2 | 0.0 | 0.0 |
| 39 | 457.20 | 0.00 | 11.00 | 126.137 | 46.884 | 0.027 | 285.2 | 283.2 | 0.0 | 0.0 |
| 40 | 457.20 | 0.00 | 14.00 | 126.158 | 43.333 | 0.027 | 285.6 | 283.3 | 0.0 | 0.0 |
| 41 | 457.20 | 0.00 | 17.00 | 126.206 | 39.684 | 0.030 | 285.4 | 283.2 | 110.8 | 100.5 |
| 42 | 457.20 | 0.00 | 20.00 | 126.330 | 35.825 | 0.028 | 285.4 | 283.2 | 0.0 | 0.0 |

| CONFIGURATION | $X/D_E$ | $T_j/T_o$ | $M_j$ | HORIZONTAL | VERTICAL | DIAGONAL -14° | DIAGONAL +14° |
|---|---|---|---|---|---|---|---|
| O - O (BASELINE) | 9 | 1 | 0.8 | TAB147T | TAB146T | TAB165T | TAB175T |
| I - A | 9 | 1 | 0.8 | TAB157T | TAB158T | TAB168T | TAB176T |
| I - B | 9 | 1 | 0.8 | TAB149T | TAB148T | TAB167T | TAB180T |
| III - A | 9 | 1 | 0.8 | TAB161T | TAB162T | TAB169T | TAB177T |
| III - B | 9 | 1 | 0.8 | TAB155T | TAB156T | TAB170T | TAB181T |
| II - A | 9 | 1 | 0.8 | TAB151T | TAB152T | TAB171T | TAB178T |
| II - B | 9 | 1 | 0.8 | TAB159T | TAB160T | TAB173T | TAB182T |
| IV - A | 9 | 1 | 0.8 | TAB153T | TAB154T | TAB172T | TAB179T |
| IV - B | 9 | 1 | 0.8 | TAB163T | TAB164T | TAB174T | TAB183T |
| VI - A | 9 | 1 | 0.8 | TAB242T | TAB241T | TAB257T | TAB269T |
| VI - B | 9 | 1 | 0.8 | TAB252T | TAB253T | TAB264T | TAB273T |
| VII - A | 9 | 1 | 0.8 | TAB239T | TAB240T | TAB256T | TAB268T |
| VII - B | 9 | 1 | 0.8 | TAB248T | TAB249T | TAB261T | TAB272T |
| V - C | 9 | 1 | 0.8 | TAB275T | TAB276T | TAB260T | TAB274T |
| I - C | 9 | 1 | 0.8 | TAB365T | TAB364T | - - - - | - - - - |

Figure 9 Mixing Modification Test Conditions and Run Numbers - $M_j$=0.8

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File : TAB147T

14-NOV-88
14-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Baseline

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.375 kPa

Mean gauged plenum pressure : 51.604 kPa
RMS gauged plenum pressure : 0.132 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.411 | 0.433 | 0.012 | 294.8 | 285.6 | 292.2 | 291.8 |
| 3 | 457.20 | -105.00 | 0.00 | 51.401 | 0.795 | 0.017 | 294.8 | 285.6 | 292.1 | 291.4 |
| 4 | 457.20 | -100.00 | 0.00 | 51.656 | 1.242 | 0.013 | 295.1 | 285.6 | 291.5 | 290.5 |
| 5 | 457.20 | -95.00 | 0.00 | 51.641 | 1.706 | 0.014 | 295.3 | 285.6 | 291.5 | 290.1 |
| 6 | 457.20 | -90.00 | 0.00 | 51.619 | 2.199 | 0.015 | 295.6 | 285.6 | 291.3 | 289.5 |
| 7 | 457.20 | -85.00 | 0.00 | 51.582 | 3.095 | 0.013 | 295.5 | 285.6 | 290.8 | 288.2 |
| 8 | 457.20 | -80.00 | 0.00 | 51.576 | 3.800 | 0.015 | 295.5 | 285.6 | 290.5 | 287.4 |
| 9 | 457.20 | -75.00 | 0.00 | 51.580 | 4.771 | 0.013 | 295.4 | 285.6 | 290.4 | 286.5 |
| 10 | 457.20 | -70.00 | 0.00 | 51.849 | 5.737 | 0.014 | 295.0 | 285.5 | 289.8 | 285.1 |
| 11 | 457.20 | -65.00 | 0.00 | 51.845 | 6.979 | 0.013 | 294.9 | 285.5 | 289.5 | 283.9 |
| 12 | 457.20 | -60.00 | 0.00 | 51.856 | 8.025 | 0.012 | 294.8 | 285.6 | 289.3 | 282.9 |
| 13 | 457.20 | -55.00 | 0.00 | 51.871 | 9.498 | 0.013 | 294.6 | 285.6 | 289.0 | 281.5 |
| 14 | 457.20 | -50.00 | 0.00 | 51.851 | 10.555 | 0.013 | 294.5 | 285.5 | 288.6 | 280.3 |
| 15 | 457.20 | -45.00 | 0.00 | 51.819 | 12.173 | 0.013 | 294.4 | 285.5 | 288.4 | 278.9 |
| 16 | 457.20 | -40.00 | 0.00 | 51.799 | 13.490 | 0.014 | 294.4 | 285.5 | 287.9 | 277.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 51.744 | 15.229 | 0.012 | 294.4 | 285.5 | 287.6 | 276.0 |
| 18 | 457.20 | -30.00 | 0.00 | 51.724 | 16.582 | 0.012 | 294.4 | 285.5 | 287.5 | 275.0 |
| 19 | 457.20 | -25.00 | 0.00 | 51.717 | 17.894 | 0.012 | 294.4 | 285.5 | 287.3 | 273.9 |
| 20 | 457.20 | -20.00 | 0.00 | 51.666 | 19.044 | 0.012 | 294.4 | 285.5 | 287.1 | 272.9 |
| 21 | 457.20 | -15.00 | 0.00 | 51.631 | 19.626 | 0.012 | 294.4 | 285.5 | 287.0 | 272.4 |
| 22 | 457.20 | -10.00 | 0.00 | 51.580 | 20.067 | 0.012 | 294.3 | 285.5 | 287.0 | 272.1 |
| 23 | 457.20 | -5.00 | 0.00 | 51.570 | 20.063 | 0.012 | 294.2 | 285.5 | 286.8 | 272.0 |
| 24 | 457.20 | 0.00 | 0.00 | 51.556 | 19.682 | 0.012 | 294.2 | 285.5 | 286.9 | 272.3 |
| 25 | 457.20 | 5.00 | 0.00 | 51.540 | 19.158 | 0.012 | 294.2 | 285.5 | 287.1 | 272.8 |
| 26 | 457.20 | 10.00 | 0.00 | 51.567 | 17.881 | 0.013 | 294.3 | 285.5 | 287.3 | 273.9 |
| 27 | 457.20 | 15.00 | 0.00 | 51.610 | 16.499 | 0.012 | 294.2 | 285.5 | 287.8 | 275.3 |
| 28 | 457.20 | 20.00 | 0.00 | 51.672 | 14.489 | 0.012 | 294.2 | 285.5 | 287.9 | 276.8 |
| 29 | 457.20 | 25.00 | 0.00 | 51.673 | 12.898 | 0.012 | 294.2 | 285.5 | 288.1 | 278.1 |
| 30 | 457.20 | 30.00 | 0.00 | 51.614 | 10.604 | 0.012 | 294.2 | 285.5 | 288.4 | 280.1 |
| 31 | 457.20 | 35.00 | 0.00 | 51.538 | 8.908 | 0.012 | 294.8 | 285.5 | 288.7 | 281.6 |
| 32 | 457.20 | 40.00 | 0.00 | 51.531 | 7.164 | 0.012 | 295.2 | 285.5 | 288.9 | 283.1 |
| 33 | 457.20 | 45.00 | 0.00 | 51.548 | 5.663 | 0.012 | 295.2 | 285.4 | 289.4 | 284.8 |
| 34 | 457.20 | 50.00 | 0.00 | 51.580 | 4.638 | 0.012 | 295.5 | 285.4 | 289.7 | 285.9 |
| 35 | 457.20 | 55.00 | 0.00 | 51.571 | 3.589 | 0.012 | 295.4 | 285.4 | 289.8 | 286.8 |
| 36 | 457.20 | 60.00 | 0.00 | 51.540 | 2.874 | 0.012 | 295.3 | 285.4 | 290.3 | 287.9 |
| 37 | 457.20 | 65.00 | 0.00 | 51.515 | 2.227 | 0.012 | 295.0 | 285.4 | 290.7 | 288.8 |
| 38 | 457.20 | 70.00 | 0.00 | 51.491 | 1.531 | 0.012 | 294.6 | 285.4 | 291.2 | 289.9 |
| 39 | 457.20 | 75.00 | 0.00 | 51.478 | 1.308 | 0.012 | 294.4 | 285.4 | 291.1 | 290.0 |
| 40 | 457.20 | 80.00 | 0.00 | 51.440 | 0.831 | 0.012 | 294.3 | 285.4 | 291.3 | 290.6 |
| 41 | 457.20 | 85.00 | 0.00 | 51.386 | 0.543 | 0.012 | 294.1 | 285.3 | 291.7 | 291.2 |
| 42 | 457.20 | 90.00 | 0.00 | 51.413 | 0.358 | 0.012 | 294.1 | 285.4 | 291.7 | 291.4 |
| 43 | 457.20 | 95.00 | 0.00 | 51.466 | 0.147 | 0.012 | 294.1 | 285.3 | 291.9 | 291.8 |
| 44 | 457.20 | 100.00 | 0.00 | 51.534 | 0.099 | 0.012 | 294.1 | 285.4 | 291.8 | 291.7 |
| 45 | 457.20 | 105.00 | 0.00 | 51.570 | 0.044 | 0.012 | 294.2 | 285.3 | 292.4 | 292.4 |
| 46 | 457.20 | 110.00 | 0.00 | 51.606 | 0.014 | 0.012 | 294.2 | 285.3 | 292.3 | 292.3 |

File : TAB146T

14-NOV-88
14-NOV-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Baseline

C1 : X/D = 9
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.375 kPa

Mean gauged plenum pressure : 51.637 kPa
RMS gauged plenum pressure : 0.355 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.479 | 0.470 | 0.012 | 294.9 | 286.2 | 291.2 | 290.8 |
| 3 | 457.20 | 0.00 | -58.00 | 51.509 | 0.469 | 0.012 | 294.9 | 286.1 | 291.3 | 290.9 |
| 4 | 457.20 | 0.00 | -56.00 | 51.499 | 0.677 | 0.012 | 294.9 | 286.1 | 291.0 | 290.4 |
| 5 | 457.20 | 0.00 | -54.00 | 51.524 | 0.869 | 0.012 | 295.2 | 286.1 | 290.2 | 289.5 |
| 6 | 457.20 | 0.00 | -52.00 | 51.514 | 1.057 | 0.013 | 295.1 | 286.0 | 290.2 | 289.3 |
| 7 | 457.20 | 0.00 | -50.00 | 51.482 | 1.277 | 0.012 | 295.0 | 285.9 | 289.9 | 288.8 |
| 8 | 457.20 | 0.00 | -48.00 | 51.444 | 1.561 | 0.012 | 295.4 | 285.9 | 289.3 | 288.0 |
| 9 | 457.20 | 0.00 | -46.00 | 51.440 | 1.918 | 0.012 | 295.7 | 285.8 | 289.0 | 287.4 |
| 10 | 457.20 | 0.00 | -44.00 | 51.407 | 2.255 | 0.013 | 295.7 | 285.8 | 288.5 | 286.6 |
| 11 | 457.20 | 0.00 | -42.00 | 51.420 | 2.697 | 0.014 | 295.6 | 285.7 | 289.1 | 286.9 |
| 12 | 457.20 | 0.00 | -40.00 | 51.453 | 3.231 | 0.013 | 295.5 | 285.7 | 288.4 | 285.7 |
| 13 | 457.20 | 0.00 | -38.00 | 51.483 | 3.619 | 0.012 | 295.4 | 285.7 | 288.4 | 285.4 |
| 14 | 457.20 | 0.00 | -36.00 | 51.675 | 4.243 | 0.012 | 295.5 | 285.7 | 288.0 | 284.5 |
| 15 | 457.20 | 0.00 | -34.00 | 52.209 | 4.849 | 0.012 | 295.4 | 285.7 | 287.9 | 284.0 |
| 16 | 457.20 | 0.00 | -32.00 | 52.223 | 5.699 | 0.014 | 294.7 | 285.7 | 287.4 | 282.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -30.00 | 52.244 | 6.463 | 0.014 | 294.3 | 285.7 | 287.5 | 282.3 |
| 18 | 457.20 | 0.00 | -28.00 | 52.314 | 7.124 | 0.014 | 294.2 | 285.7 | 287.4 | 281.7 |
| 19 | 457.20 | 0.00 | -26.00 | 52.288 | 8.160 | 0.016 | 294.3 | 285.7 | 287.3 | 280.8 |
| 20 | 457.20 | 0.00 | -24.00 | 52.238 | 9.171 | 0.013 | 294.3 | 285.7 | 287.1 | 279.9 |
| 21 | 457.20 | 0.00 | -22.00 | 51.234 | 10.035 | 0.016 | 294.3 | 285.7 | 287.0 | 279.1 |
| 22 | 457.20 | 0.00 | -20.00 | 51.184 | 11.127 | 0.013 | 294.4 | 285.7 | 287.3 | 278.6 |
| 23 | 457.20 | 0.00 | -18.00 | 51.204 | 12.164 | 0.016 | 294.2 | 285.7 | 287.2 | 277.8 |
| 24 | 457.20 | 0.00 | -16.00 | 52.387 | 13.509 | 0.014 | 294.3 | 285.8 | 287.2 | 276.8 |
| 25 | 457.20 | 0.00 | -14.00 | 51.522 | 14.428 | 0.016 | 294.4 | 285.8 | 287.2 | 276.2 |
| 26 | 457.20 | 0.00 | -12.00 | 51.509 | 15.673 | 0.022 | 294.5 | 285.8 | 287.2 | 275.3 |
| 27 | 457.20 | 0.00 | -10.00 | 51.527 | 16.711 | 0.018 | 294.4 | 285.8 | 287.3 | 274.7 |
| 28 | 457.20 | 0.00 | -8.00 | 51.546 | 17.627 | 0.022 | 294.5 | 285.8 | 287.3 | 274.1 |
| 29 | 457.20 | 0.00 | -6.00 | 51.542 | 18.307 | 0.022 | 294.3 | 285.8 | 287.3 | 273.6 |
| 30 | 457.20 | 0.00 | -4.00 | 51.496 | 19.101 | 0.023 | 294.5 | 285.8 | 287.3 | 273.1 |
| 31 | 457.20 | 0.00 | -2.00 | 51.505 | 19.398 | 0.023 | 294.5 | 285.8 | 287.5 | 273.1 |
| 32 | 457.20 | 0.00 | 0.00 | 51.443 | 19.581 | 0.025 | 294.7 | 285.8 | 287.4 | 272.8 |
| 33 | 457.20 | 0.00 | 2.00 | 51.389 | 19.437 | 0.016 | 295.1 | 285.8 | 287.2 | 272.8 |
| 34 | 457.20 | 0.00 | 4.00 | 51.378 | 19.380 | 0.019 | 295.4 | 285.8 | 287.0 | 272.6 |
| 35 | 457.20 | 0.00 | 6.00 | 51.361 | 18.873 | 0.021 | 295.7 | 285.8 | 287.1 | 273.0 |
| 36 | 457.20 | 0.00 | 8.00 | 51.370 | 18.171 | 0.017 | 295.9 | 285.8 | 286.9 | 273.3 |
| 37 | 457.20 | 0.00 | 10.00 | 52.181 | 17.654 | 0.016 | 295.3 | 285.7 | 286.9 | 273.7 |

File : TAB165T

6-DEC-88
18-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.713 kPa

Mean gauged plenum pressure : 51.380 kPa
RMS gauged plenum pressure : 0.527 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.384 | 0.136 | 0.017 | 290.4 | 285.2 | 288.8 | 288.7 |
| 3 | 457.20 | -105.00 | 0.00 | 51.388 | 0.178 | 0.020 | 290.4 | 285.1 | 288.2 | 288.1 |
| 4 | 457.20 | -100.00 | 0.00 | 51.391 | 0.198 | 0.022 | 290.0 | 285.1 | 287.9 | 287.7 |
| 5 | 457.20 | -95.00 | 0.00 | 51.347 | 0.404 | 0.017 | 290.1 | 285.1 | 288.1 | 287.8 |
| 6 | 457.20 | -90.00 | 0.00 | 51.324 | 0.914 | 0.018 | 290.1 | 285.1 | 288.1 | 287.3 |
| 7 | 457.20 | -85.00 | 0.00 | 51.346 | 1.196 | 0.015 | 290.2 | 285.1 | 287.8 | 286.8 |
| 8 | 457.20 | -80.00 | 0.00 | 51.348 | 1.495 | 0.017 | 290.2 | 285.1 | 287.5 | 286.3 |
| 9 | 457.20 | -75.00 | 0.00 | 51.374 | 2.408 | 0.015 | 290.3 | 285.2 | 287.4 | 285.4 |
| 10 | 457.20 | -70.00 | 0.00 | 51.409 | 2.852 | 0.017 | 290.3 | 285.1 | 287.2 | 284.9 |
| 11 | 457.20 | -65.00 | 0.00 | 51.449 | 4.021 | 0.015 | 290.4 | 285.1 | 286.7 | 283.4 |
| 12 | 457.20 | -60.00 | 0.00 | 51.639 | 4.640 | 0.015 | 290.5 | 285.1 | 286.9 | 283.2 |
| 13 | 457.20 | -55.00 | 0.00 | 51.707 | 5.672 | 0.016 | 290.6 | 285.2 | 286.9 | 282.3 |
| 14 | 457.20 | -50.00 | 0.00 | 51.745 | 7.042 | 0.021 | 290.5 | 285.1 | 286.0 | 280.4 |
| 15 | 457.20 | -45.00 | 0.00 | 51.697 | 8.702 | 0.017 | 290.4 | 285.1 | 286.1 | 279.3 |
| 16 | 457.20 | -40.00 | 0.00 | 51.702 | 10.257 | 0.016 | 290.6 | 285.1 | 286.1 | 278.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 51.813 | 11.837 | 0.015 | 291.1 | 285.1 | 285.7 | 276.6 |
| 18 | 457.20 | -30.00 | 0.00 | 51.918 | 13.331 | 0.016 | 291.3 | 285.1 | 285.8 | 275.6 |
| 19 | 457.20 | -25.00 | 0.00 | 51.903 | 15.251 | 0.017 | 291.1 | 285.1 | 285.3 | 273.8 |
| 20 | 457.20 | -20.00 | 0.00 | 51.978 | 16.555 | 0.014 | 291.3 | 285.1 | 285.6 | 273.2 |
| 21 | 457.20 | -15.00 | 0.00 | 50.882 | 17.357 | 0.016 | 291.0 | 285.1 | 285.4 | 272.5 |
| 22 | 457.20 | -10.00 | 0.00 | 49.756 | 17.939 | 0.014 | 290.7 | 285.0 | 285.1 | 271.8 |
| 23 | 457.20 | -5.00 | 0.00 | 49.250 | 18.169 | 0.021 | 290.5 | 285.1 | 285.0 | 271.5 |
| 24 | 457.20 | 0.00 | 0.00 | 50.206 | 19.259 | 0.020 | 290.4 | 285.2 | 285.3 | 271.1 |
| 25 | 457.20 | 5.00 | 0.00 | 52.449 | 20.010 | 0.016 | 290.3 | 285.2 | 285.1 | 270.4 |
| 26 | 457.20 | 10.00 | 0.00 | 51.752 | 19.277 | 0.018 | 290.3 | 285.2 | 285.2 | 271.0 |
| 27 | 457.20 | 15.00 | 0.00 | 51.265 | 18.278 | 0.014 | 290.2 | 285.1 | 285.3 | 271.8 |
| 28 | 457.20 | 20.00 | 0.00 | 51.541 | 17.082 | 0.014 | 290.3 | 285.2 | 285.5 | 272.7 |
| 29 | 457.20 | 25.00 | 0.00 | 51.498 | 15.346 | 0.014 | 290.5 | 285.1 | 285.5 | 273.9 |
| 30 | 457.20 | 30.00 | 0.00 | 51.439 | 13.537 | 0.015 | 290.5 | 285.1 | 285.7 | 275.4 |
| 31 | 457.20 | 35.00 | 0.00 | 51.371 | 11.182 | 0.020 | 290.6 | 285.1 | 285.8 | 277.2 |
| 32 | 457.20 | 40.00 | 0.00 | 51.342 | 9.257 | 0.019 | 290.7 | 285.1 | 286.0 | 278.8 |
| 33 | 457.20 | 45.00 | 0.00 | 51.325 | 7.278 | 0.019 | 290.7 | 285.1 | 286.2 | 280.4 |
| 34 | 457.20 | 50.00 | 0.00 | 51.241 | 5.594 | 0.023 | 290.6 | 285.1 | 286.4 | 281.9 |
| 35 | 457.20 | 55.00 | 0.00 | 51.149 | 4.255 | 0.019 | 290.6 | 285.1 | 286.6 | 283.2 |
| 36 | 457.20 | 60.00 | 0.00 | 51.273 | 3.123 | 0.022 | 290.7 | 285.1 | 286.7 | 284.2 |
| 37 | 457.20 | 65.00 | 0.00 | 51.252 | 2.376 | 0.017 | 290.7 | 285.1 | 287.1 | 285.2 |
| 38 | 457.20 | 70.00 | 0.00 | 51.225 | 1.908 | 0.021 | 290.9 | 285.2 | 287.8 | 286.2 |
| 39 | 457.20 | 75.00 | 0.00 | 51.222 | 1.496 | 0.020 | 290.8 | 285.1 | 287.9 | 286.7 |
| 40 | 457.20 | 80.00 | 0.00 | 51.182 | 0.651 | 0.022 | 290.8 | 285.1 | 288.1 | 287.6 |
| 41 | 457.20 | 85.00 | 0.00 | 51.134 | 0.526 | 0.016 | 291.0 | 285.1 | 288.3 | 287.9 |
| 42 | 457.20 | 90.00 | 0.00 | 51.156 | 0.284 | 0.015 | 290.9 | 285.1 | 288.5 | 288.3 |
| 43 | 457.20 | 95.00 | 0.00 | 51.772 | 0.192 | 0.016 | 291.0 | 285.1 | 288.6 | 288.4 |
| 44 | 457.20 | 100.00 | 0.00 | 51.714 | 0.061 | 0.017 | 290.8 | 285.1 | 288.6 | 288.5 |
| 45 | 457.20 | 105.00 | 0.00 | 51.691 | 0.064 | 0.018 | 290.8 | 285.1 | 288.9 | 288.8 |
| 46 | 457.20 | 110.00 | 0.00 | 51.731 | 0.014 | 0.017 | 290.5 | 285.1 | 289.3 | 289.3 |

C.2

File : TAB175T

10-DEC-88
22-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
BASELINE

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 51.343 kPa
RMS gauged plenum pressure : 0.133 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.235 | 0.175 | 0.012 | 285.3 | 284.2 | 284.4 | 284.3 |
| 3 | 457.20 | -105.00 | 0.00 | 51.244 | 0.333 | 0.013 | 285.2 | 284.2 | 284.4 | 284.1 |
| 4 | 457.20 | -100.00 | 0.00 | 51.247 | 0.519 | 0.013 | 285.2 | 284.2 | 284.2 | 283.8 |
| 5 | 457.20 | -95.00 | 0.00 | 51.287 | 0.726 | 0.012 | 285.1 | 284.2 | 284.2 | 283.6 |
| 6 | 457.20 | -90.00 | 0.00 | 51.253 | 0.873 | 0.012 | 285.2 | 284.2 | 284.1 | 283.4 |
| 7 | 457.20 | -85.00 | 0.00 | 51.246 | 1.499 | 0.012 | 285.2 | 284.2 | 284.1 | 282.9 |
| 8 | 457.20 | -80.00 | 0.00 | 51.243 | 2.258 | 0.012 | 285.3 | 284.2 | 284.2 | 282.4 |
| 9 | 457.20 | -75.00 | 0.00 | 51.199 | 3.079 | 0.012 | 285.5 | 284.2 | 284.2 | 281.7 |
| 10 | 457.20 | -70.00 | 0.00 | 51.193 | 3.373 | 0.012 | 285.5 | 284.2 | 283.8 | 281.1 |
| 11 | 457.20 | -65.00 | 0.00 | 51.189 | 4.394 | 0.012 | 285.4 | 284.2 | 283.8 | 280.3 |
| 12 | 457.20 | -60.00 | 0.00 | 51.152 | 5.153 | 0.012 | 285.4 | 284.2 | 283.5 | 279.4 |
| 13 | 457.20 | -55.00 | 0.00 | 51.162 | 6.448 | 0.012 | 285.2 | 284.1 | 283.1 | 278.0 |
| 14 | 457.20 | -50.00 | 0.00 | 51.152 | 7.550 | 0.012 | 285.1 | 284.2 | 283.1 | 277.2 |
| 15 | 457.20 | -45.00 | 0.00 | 51.148 | 9.040 | 0.012 | 285.0 | 284.1 | 282.9 | 275.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.154 | 10.419 | 0.012 | 284.9 | 284.1 | 282.9 | 274.9 |
| 17 | 457.20 | -35.00 | 0.00 | 51.176 | 11.816 | 0.012 | 285.0 | 284.1 | 282.8 | 273.8 |
| 18 | 457.20 | -30.00 | 0.00 | 51.117 | 13.652 | 0.012 | 284.9 | 284.1 | 282.9 | 272.6 |
| 19 | 457.20 | -25.00 | 0.00 | 51.117 | 15.269 | 0.012 | 284.9 | 284.1 | 282.8 | 271.4 |
| 20 | 457.20 | -20.00 | 0.00 | 51.294 | 16.799 | 0.012 | 285.0 | 284.1 | 282.8 | 270.3 |
| 21 | 457.20 | -15.00 | 0.00 | 51.303 | 18.066 | 0.012 | 285.0 | 284.2 | 282.6 | 269.3 |
| 22 | 457.20 | -10.00 | 0.00 | 51.355 | 18.973 | 0.012 | 285.0 | 284.2 | 282.8 | 268.9 |
| 23 | 457.20 | -5.00 | 0.00 | 51.359 | 19.634 | 0.012 | 285.1 | 284.1 | 282.8 | 268.5 |
| 24 | 457.20 | 0.00 | 0.00 | 51.362 | 19.794 | 0.012 | 285.2 | 284.2 | 282.7 | 268.3 |
| 25 | 457.20 | 5.00 | 0.00 | 51.373 | 19.589 | 0.012 | 285.2 | 284.2 | 282.7 | 268.4 |
| 26 | 457.20 | 10.00 | 0.00 | 51.495 | 18.867 | 0.012 | 285.1 | 284.1 | 282.6 | 268.8 |
| 27 | 457.20 | 15.00 | 0.00 | 51.442 | 17.944 | 0.012 | 285.0 | 284.1 | 282.7 | 269.5 |
| 28 | 457.20 | 20.00 | 0.00 | 51.454 | 16.518 | 0.013 | 284.9 | 284.1 | 282.5 | 270.2 |
| 29 | 457.20 | 25.00 | 0.00 | 51.443 | 14.911 | 0.014 | 284.9 | 284.1 | 282.8 | 271.6 |
| 30 | 457.20 | 30.00 | 0.00 | 51.482 | 13.126 | 0.013 | 284.9 | 284.1 | 282.9 | 272.9 |
| 31 | 457.20 | 35.00 | 0.00 | 51.484 | 11.314 | 0.014 | 284.9 | 284.1 | 283.0 | 274.3 |
| 32 | 457.20 | 40.00 | 0.00 | 51.422 | 9.486 | 0.014 | 285.0 | 284.1 | 283.1 | 275.7 |
| 33 | 457.20 | 45.00 | 0.00 | 51.458 | 8.145 | 0.013 | 285.0 | 284.1 | 283.3 | 276.9 |
| 34 | 457.20 | 50.00 | 0.00 | 51.461 | 6.635 | 0.014 | 285.1 | 284.1 | 283.5 | 278.3 |
| 35 | 457.20 | 55.00 | 0.00 | 51.446 | 5.358 | 0.013 | 285.2 | 284.1 | 283.5 | 279.2 |
| 36 | 457.20 | 60.00 | 0.00 | 51.473 | 4.377 | 0.015 | 285.3 | 284.2 | 283.7 | 280.2 |
| 37 | 457.20 | 65.00 | 0.00 | 51.491 | 3.402 | 0.018 | 285.3 | 284.2 | 284.0 | 281.3 |
| 38 | 457.20 | 70.00 | 0.00 | 51.513 | 2.751 | 0.015 | 285.4 | 284.1 | 284.1 | 281.9 |
| 39 | 457.20 | 75.00 | 0.00 | 51.503 | 2.080 | 0.017 | 285.4 | 284.2 | 284.2 | 282.5 |
| 40 | 457.20 | 80.00 | 0.00 | 51.516 | 1.464 | 0.016 | 285.4 | 284.2 | 284.5 | 283.3 |
| 41 | 457.20 | 85.00 | 0.00 | 51.501 | 1.173 | 0.013 | 285.5 | 284.2 | 284.5 | 283.5 |
| 42 | 457.20 | 90.00 | 0.00 | 51.495 | 0.755 | 0.016 | 285.6 | 284.2 | 284.5 | 283.9 |
| 43 | 457.20 | 95.00 | 0.00 | 51.506 | 0.425 | 0.013 | 285.5 | 284.2 | 284.6 | 284.2 |
| 44 | 457.20 | 100.00 | 0.00 | 51.484 | 0.239 | 0.015 | 285.4 | 284.1 | 284.6 | 284.4 |
| 45 | 457.20 | 105.00 | 0.00 | 51.463 | 0.119 | 0.018 | 285.4 | 284.2 | 284.7 | 284.6 |
| 46 | 457.20 | 110.00 | 0.00 | 51.384 | 0.042 | 0.014 | 285.3 | 284.1 | 284.6 | 284.6 |

File : TAB157T

17-NOV-88
17-NOV-88

Reduced experimental data file

*HORIZONTAL PROFILE*

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config. I(A)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.442 kPa

Mean gauged plenum pressure : 51.592 kPa
RMS gauged plenum pressure : 0.135 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.439 | 0.436 | 0.068 | 281.7 | 283.6 | 281.2 | 280.8 |
| 3 | 457.20 | -105.00 | 0.00 | 51.426 | 0.554 | 0.066 | 281.8 | 283.7 | 281.3 | 280.8 |
| 4 | 457.20 | -100.00 | 0.00 | 51.471 | 0.824 | 0.068 | 281.8 | 283.8 | 281.3 | 280.6 |
| 5 | 457.20 | -95.00 | 0.00 | 51.527 | 1.272 | 0.069 | 281.7 | 283.8 | 281.1 | 280.1 |
| 6 | 457.20 | -90.00 | 0.00 | 51.525 | 1.733 | 0.073 | 281.7 | 283.8 | 281.0 | 279.6 |
| 7 | 457.20 | -85.00 | 0.00 | 51.582 | 2.201 | 0.070 | 281.7 | 283.9 | 280.9 | 279.1 |
| 8 | 457.20 | -80.00 | 0.00 | 51.578 | 3.058 | 0.065 | 281.8 | 283.9 | 281.2 | 278.7 |
| 9 | 457.20 | -75.00 | 0.00 | 51.610 | 3.953 | 0.065 | 281.8 | 283.9 | 281.3 | 278.1 |
| 10 | 457.20 | -70.00 | 0.00 | 51.622 | 5.016 | 0.068 | 281.9 | 283.9 | 281.3 | 277.3 |
| 11 | 457.20 | -65.00 | 0.00 | 51.608 | 6.060 | 0.067 | 281.7 | 284.0 | 281.3 | 276.5 |
| 12 | 457.20 | -60.00 | 0.00 | 51.574 | 7.457 | 0.063 | 281.8 | 284.0 | 281.1 | 275.3 |
| 13 | 457.20 | -55.00 | 0.00 | 51.514 | 8.912 | 0.064 | 281.8 | 284.0 | 281.3 | 274.4 |
| 14 | 457.20 | -50.00 | 0.00 | 51.522 | 10.549 | 0.073 | 281.8 | 284.0 | 281.3 | 273.2 |
| 15 | 457.20 | -45.00 | 0.00 | 51.549 | 12.373 | 0.073 | 281.8 | 284.0 | 281.7 | 272.3 |
| 16 | 457.20 | -40.00 | 0.00 | 51.540 | 14.060 | 0.067 | 281.8 | 284.0 | 281.7 | 271.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 51.610 | 15.691 | 0.068 | 281.8 | 284.0 | 281.7 | 270.0 |
| 18 | 457.20 | -30.00 | 0.00 | 51.680 | 16.252 | 0.067 | 281.7 | 284.0 | 281.7 | 269.6 |
| 19 | 457.20 | -25.00 | 0.00 | 51.676 | 16.486 | 0.066 | 281.8 | 284.0 | 281.7 | 269.5 |
| 20 | 457.20 | -20.00 | 0.00 | 51.740 | 15.990 | 0.067 | 281.9 | 284.0 | 281.5 | 269.6 |
| 21 | 457.20 | -15.00 | 0.00 | 51.695 | 14.961 | 0.059 | 281.8 | 284.0 | 281.2 | 270.0 |
| 22 | 457.20 | -10.00 | 0.00 | 51.640 | 13.897 | 0.061 | 281.8 | 284.0 | 280.9 | 270.5 |
| 23 | 457.20 | -5.00 | 0.00 | 51.657 | 13.429 | 0.058 | 281.9 | 284.0 | 280.8 | 270.7 |
| 24 | 457.20 | 0.00 | 0.00 | 51.654 | 13.238 | 0.061 | 281.9 | 284.0 | 280.7 | 270.7 |
| 25 | 457.20 | 5.00 | 0.00 | 51.646 | 14.108 | 0.054 | 282.0 | 284.1 | 281.0 | 270.4 |
| 26 | 457.20 | 10.00 | 0.00 | 51.756 | 15.227 | 0.053 | 281.9 | 284.1 | 281.1 | 269.8 |
| 27 | 457.20 | 15.00 | 0.00 | 51.778 | 16.293 | 0.051 | 281.9 | 284.1 | 281.3 | 269.2 |
| 28 | 457.20 | 20.00 | 0.00 | 51.712 | 17.112 | 0.051 | 282.0 | 284.1 | 281.7 | 269.1 |
| 29 | 457.20 | 25.00 | 0.00 | 51.639 | 17.055 | 0.052 | 282.0 | 284.1 | 281.9 | 269.3 |
| 30 | 457.20 | 30.00 | 0.00 | 51.623 | 15.588 | 0.053 | 281.9 | 284.1 | 281.7 | 270.1 |
| 31 | 457.20 | 35.00 | 0.00 | 51.581 | 14.056 | 0.049 | 281.9 | 284.1 | 281.7 | 271.1 |
| 32 | 457.20 | 40.00 | 0.00 | 51.647 | 11.648 | 0.044 | 282.0 | 284.0 | 281.4 | 272.5 |
| 33 | 457.20 | 45.00 | 0.00 | 51.643 | 9.339 | 0.050 | 282.0 | 284.1 | 281.2 | 274.0 |
| 34 | 457.20 | 50.00 | 0.00 | 51.657 | 7.337 | 0.045 | 282.0 | 284.1 | 281.1 | 275.4 |
| 35 | 457.20 | 55.00 | 0.00 | 51.717 | 6.041 | 0.038 | 282.0 | 284.1 | 281.1 | 276.3 |
| 36 | 457.20 | 60.00 | 0.00 | 51.724 | 4.784 | 0.037 | 282.0 | 284.1 | 281.2 | 277.4 |
| 37 | 457.20 | 65.00 | 0.00 | 51.757 | 3.764 | 0.035 | 282.1 | 284.1 | 281.2 | 278.2 |
| 38 | 457.20 | 70.00 | 0.00 | 51.737 | 2.884 | 0.036 | 282.1 | 284.1 | 281.4 | 279.1 |
| 39 | 457.20 | 75.00 | 0.00 | 51.667 | 2.013 | 0.032 | 282.1 | 284.2 | 281.3 | 279.7 |
| 40 | 457.20 | 80.00 | 0.00 | 51.601 | 1.379 | 0.025 | 282.2 | 284.1 | 281.4 | 280.3 |
| 41 | 457.20 | 85.00 | 0.00 | 51.575 | 1.022 | 0.025 | 282.2 | 284.1 | 281.6 | 280.8 |
| 42 | 457.20 | 90.00 | 0.00 | 51.582 | 0.706 | 0.023 | 282.2 | 284.1 | 281.4 | 280.8 |
| 43 | 457.20 | 95.00 | 0.00 | 51.491 | 0.475 | 0.029 | 282.2 | 284.1 | 281.5 | 281.1 |
| 44 | 457.20 | 100.00 | 0.00 | 51.400 | 0.269 | 0.024 | 282.1 | 284.1 | 281.5 | 281.3 |
| 45 | 457.20 | 105.00 | 0.00 | 51.393 | 0.152 | 0.020 | 282.1 | 284.1 | 281.2 | 281.1 |
| 46 | 457.20 | 110.00 | 0.00 | 51.018 | 0.063 | 0.017 | 282.2 | 284.0 | 281.5 | 281.4 |

File : TAB158T

17-NOV-88
17-NOV-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config I(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.510 kPa

Mean gauged plenum pressure : 51.291 kPa
RMS gauged plenum pressure : 0.354 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 51.687 | 0.014 | 0.012 | 282.4 | 284.0 | 282.0 | 282.0 |
| 3 | 457.20 | 0.00 | -97.00 | 51.691 | 0.013 | 0.012 | 282.5 | 284.0 | 282.2 | 282.2 |
| 4 | 457.20 | 0.00 | -94.00 | 51.698 | 0.013 | 0.013 | 282.5 | 284.1 | 282.3 | 282.3 |
| 5 | 457.20 | 0.00 | -91.00 | 51.688 | 0.012 | 0.014 | 282.5 | 284.0 | 282.2 | 282.2 |
| 6 | 457.20 | 0.00 | -88.00 | 51.667 | 0.012 | 0.013 | 282.5 | 284.0 | 282.2 | 282.2 |
| 7 | 457.20 | 0.00 | -85.00 | 51.637 | 0.011 | 0.014 | 282.5 | 284.0 | 282.1 | 282.1 |
| 8 | 457.20 | 0.00 | -82.00 | 51.624 | 0.011 | 0.013 | 282.6 | 284.0 | 282.1 | 282.1 |
| 9 | 457.20 | 0.00 | -79.00 | 51.617 | 0.010 | 0.013 | 282.6 | 284.0 | 281.9 | 281.9 |
| 10 | 457.20 | 0.00 | -76.00 | 51.599 | 0.011 | 0.016 | 282.6 | 284.1 | 282.0 | 282.0 |
| 11 | 457.20 | 0.00 | -73.00 | 51.606 | 0.011 | 0.013 | 282.6 | 284.1 | 281.7 | 281.7 |
| 12 | 457.20 | 0.00 | -70.00 | 51.645 | 0.014 | 0.016 | 282.7 | 284.1 | 281.7 | 281.7 |
| 13 | 457.20 | 0.00 | -67.00 | 51.698 | 0.053 | 0.015 | 282.7 | 284.1 | 281.7 | 281.7 |
| 14 | 457.20 | 0.00 | -64.00 | 51.666 | 0.098 | 0.016 | 282.8 | 284.1 | 281.4 | 281.3 |
| 15 | 457.20 | 0.00 | -61.00 | 51.573 | 0.249 | 0.019 | 282.7 | 284.1 | 281.4 | 281.2 |
| 16 | 457.20 | 0.00 | -58.00 | 51.531 | 0.357 | 0.015 | 282.8 | 284.1 | 281.3 | 281.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -55.00 | 51.545 | 0.597 | 0.016 | 282.8 | 284.1 | 280.9 | 280.4 |
| 18 | 457.20 | 0.00 | -52.00 | 51.347 | 0.829 | 0.017 | 282.9 | 284.1 | 281.3 | 280.6 |
| 19 | 457.20 | 0.00 | -49.00 | 51.413 | 1.180 | 0.017 | 282.9 | 284.1 | 280.9 | 279.9 |
| 20 | 457.20 | 0.00 | -46.00 | 51.465 | 1.533 | 0.018 | 282.9 | 284.1 | 281.0 | 279.8 |
| 21 | 457.20 | 0.00 | -43.00 | 51.506 | 1.938 | 0.019 | 282.9 | 284.1 | 280.8 | 279.2 |
| 22 | 457.20 | 0.00 | -40.00 | 51.497 | 2.562 | 0.017 | 283.0 | 284.1 | 281.0 | 278.9 |
| 23 | 457.20 | 0.00 | -37.00 | 51.449 | 3.168 | 0.021 | 283.0 | 284.1 | 280.9 | 278.4 |
| 24 | 457.20 | 0.00 | -34.00 | 51.372 | 4.004 | 0.018 | 283.0 | 284.1 | 281.0 | 277.8 |
| 25 | 457.20 | 0.00 | -31.00 | 51.151 | 4.755 | 0.024 | 282.9 | 284.1 | 280.8 | 277.0 |
| 26 | 457.20 | 0.00 | -28.00 | 51.129 | 5.525 | 0.021 | 283.0 | 284.1 | 280.8 | 276.4 |
| 27 | 457.20 | 0.00 | -25.00 | 51.143 | 6.696 | 0.019 | 283.0 | 284.1 | 280.9 | 275.7 |
| 28 | 457.20 | 0.00 | -22.00 | 51.175 | 7.719 | 0.022 | 283.0 | 284.1 | 280.9 | 274.9 |
| 29 | 457.20 | 0.00 | -19.00 | 51.168 | 8.889 | 0.022 | 283.2 | 284.1 | 281.3 | 274.4 |
| 30 | 457.20 | 0.00 | -16.00 | 51.115 | 10.029 | 0.018 | 283.3 | 284.1 | 281.3 | 273.6 |
| 31 | 457.20 | 0.00 | -13.00 | 51.049 | 10.917 | 0.021 | 283.3 | 284.1 | 281.3 | 273.0 |
| 32 | 457.20 | 0.00 | -10.00 | 50.980 | 11.787 | 0.021 | 283.3 | 284.1 | 281.4 | 272.4 |
| 33 | 457.20 | 0.00 | -7.00 | 50.978 | 12.496 | 0.021 | 283.4 | 284.2 | 281.4 | 271.9 |
| 34 | 457.20 | 0.00 | -4.00 | 50.995 | 12.933 | 0.019 | 283.5 | 284.2 | 281.5 | 271.7 |
| 35 | 457.20 | 0.00 | -1.00 | 50.982 | 13.061 | 0.019 | 283.5 | 284.1 | 281.4 | 271.5 |
| 36 | 457.20 | 0.00 | 2.00 | 50.970 | 12.935 | 0.018 | 283.5 | 284.1 | 281.3 | 271.5 |
| 37 | 457.20 | 0.00 | 5.00 | 51.014 | 12.684 | 0.025 | 283.4 | 284.1 | 281.2 | 271.6 |
| 38 | 457.20 | 0.00 | 8.00 | 50.667 | 12.052 | 0.020 | 283.3 | 284.1 | 281.0 | 271.9 |
| 39 | 457.20 | 0.00 | 11.00 | 50.706 | 11.269 | 0.024 | 283.1 | 284.1 | 280.8 | 272.2 |
| 40 | 457.20 | 0.00 | 14.00 | 50.698 | 10.308 | 0.023 | 283.2 | 284.1 | 280.8 | 272.9 |
| 41 | 457.20 | 0.00 | 17.00 | 50.667 | 9.088 | 0.023 | 283.3 | 284.0 | 280.9 | 273.9 |
| 42 | 457.20 | 0.00 | 20.00 | 50.660 | 8.092 | 0.023 | 283.2 | 284.1 | 280.7 | 274.4 |

File : TAB168T

8-DEC-88
21-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
Config. I(a)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 51.189 kPa
RMS gauged plenum pressure : 0.322 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 50.882 | 0.111 | 0.012 | 284.0 | 283.7 | 282.9 | 282.8 |
| 3 | 457.20 | -105.00 | 0.00 | 50.747 | 0.288 | 0.012 | 284.0 | 283.7 | 282.7 | 282.5 |
| 4 | 457.20 | -100.00 | 0.00 | 50.787 | 0.356 | 0.011 | 284.0 | 283.7 | 282.8 | 282.5 |
| 5 | 457.20 | -95.00 | 0.00 | 50.625 | 0.580 | 0.012 | 284.1 | 283.7 | 283.0 | 282.5 |
| 6 | 457.20 | -90.00 | 0.00 | 50.608 | 1.076 | 0.012 | 284.3 | 283.7 | 282.5 | 281.6 |
| 7 | 457.20 | -85.00 | 0.00 | 51.241 | 1.568 | 0.012 | 284.3 | 283.8 | 282.9 | 281.6 |
| 8 | 457.20 | -80.00 | 0.00 | 51.294 | 1.751 | 0.012 | 284.5 | 283.8 | 282.8 | 281.4 |
| 9 | 457.20 | -75.00 | 0.00 | 51.550 | 2.601 | 0.012 | 284.5 | 283.8 | 282.7 | 280.6 |
| 10 | 457.20 | -70.00 | 0.00 | 51.716 | 3.917 | 0.012 | 284.5 | 283.9 | 282.7 | 279.6 |
| 11 | 457.20 | -65.00 | 0.00 | 51.529 | 4.612 | 0.012 | 284.4 | 283.9 | 282.6 | 278.9 |
| 12 | 457.20 | -60.00 | 0.00 | 50.627 | 5.866 | 0.012 | 284.4 | 283.8 | 282.4 | 277.8 |
| 13 | 457.20 | -55.00 | 0.00 | 51.394 | 7.256 | 0.012 | 284.3 | 283.8 | 282.2 | 276.5 |
| 14 | 457.20 | -50.00 | 0.00 | 51.694 | 8.519 | 0.012 | 284.4 | 284.0 | 282.3 | 275.7 |
| 15 | 457.20 | -45.00 | 0.00 | 50.932 | 10.194 | 0.012 | 284.4 | 283.9 | 282.2 | 274.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 50.980 | 12.104 | 0.012 | 284.4 | 283.8 | 282.4 | 273.2 |
| 17 | 457.20 | -35.00 | 0.00 | 51.043 | 13.826 | 0.012 | 284.4 | 283.8 | 282.2 | 271.8 |
| 18 | 457.20 | -30.00 | 0.00 | 51.439 | 15.231 | 0.012 | 284.4 | 283.9 | 282.4 | 271.0 |
| 19 | 457.20 | -25.00 | 0.00 | 51.223 | 15.852 | 0.012 | 284.5 | 284.0 | 282.5 | 270.7 |
| 20 | 457.20 | -20.00 | 0.00 | 51.128 | 15.792 | 0.012 | 284.5 | 283.9 | 282.2 | 270.4 |
| 21 | 457.20 | -15.00 | 0.00 | 51.222 | 15.081 | 0.012 | 284.6 | 283.8 | 282.2 | 270.9 |
| 22 | 457.20 | -10.00 | 0.00 | 51.201 | 14.024 | 0.013 | 284.5 | 283.8 | 281.6 | 271.1 |
| 23 | 457.20 | -5.00 | 0.00 | 51.693 | 13.458 | 0.012 | 284.5 | 283.9 | 281.6 | 271.5 |
| 24 | 457.20 | 0.00 | 0.00 | 50.990 | 13.097 | 0.012 | 284.6 | 284.0 | 281.7 | 271.8 |
| 25 | 457.20 | 5.00 | 0.00 | 51.144 | 13.661 | 0.012 | 284.5 | 283.8 | 281.6 | 271.3 |
| 26 | 457.20 | 10.00 | 0.00 | 51.060 | 14.625 | 0.013 | 284.6 | 283.9 | 282.2 | 271.2 |
| 27 | 457.20 | 15.00 | 0.00 | 51.136 | 15.546 | 0.013 | 284.7 | 283.9 | 282.4 | 270.8 |
| 28 | 457.20 | 20.00 | 0.00 | 51.017 | 16.328 | 0.012 | 284.7 | 283.8 | 282.6 | 270.5 |
| 29 | 457.20 | 25.00 | 0.00 | 50.917 | 16.108 | 0.013 | 284.6 | 283.9 | 282.9 | 270.9 |
| 30 | 457.20 | 30.00 | 0.00 | 51.252 | 15.025 | 0.012 | 284.7 | 283.8 | 283.0 | 271.7 |
| 31 | 457.20 | 35.00 | 0.00 | 51.154 | 13.202 | 0.012 | 284.7 | 283.9 | 282.4 | 272.4 |
| 32 | 457.20 | 40.00 | 0.00 | 51.569 | 10.985 | 0.012 | 285.0 | 283.8 | 282.4 | 274.0 |
| 33 | 457.20 | 45.00 | 0.00 | 51.877 | 8.409 | 0.012 | 285.1 | 283.9 | 282.4 | 275.9 |
| 34 | 457.20 | 50.00 | 0.00 | 51.062 | 6.932 | 0.012 | 285.0 | 283.9 | 282.5 | 277.1 |
| 35 | 457.20 | 55.00 | 0.00 | 51.276 | 4.772 | 0.013 | 284.9 | 283.9 | 282.3 | 278.5 |
| 36 | 457.20 | 60.00 | 0.00 | 51.202 | 3.797 | 0.013 | 284.9 | 283.9 | 283.0 | 280.0 |
| 37 | 457.20 | 65.00 | 0.00 | 51.079 | 2.864 | 0.012 | 285.0 | 283.9 | 283.3 | 281.0 |
| 38 | 457.20 | 70.00 | 0.00 | 51.223 | 1.889 | 0.013 | 285.1 | 283.9 | 283.2 | 281.7 |
| 39 | 457.20 | 75.00 | 0.00 | 51.137 | 1.315 | 0.013 | 284.8 | 283.9 | 283.1 | 282.0 |
| 40 | 457.20 | 80.00 | 0.00 | 51.205 | 1.089 | 0.015 | 284.9 | 283.9 | 283.5 | 282.6 |
| 41 | 457.20 | 85.00 | 0.00 | 51.377 | 0.758 | 0.013 | 284.9 | 283.9 | 283.0 | 282.4 |
| 42 | 457.20 | 90.00 | 0.00 | 51.501 | 0.456 | 0.014 | 285.0 | 283.9 | 283.1 | 282.7 |
| 43 | 457.20 | 95.00 | 0.00 | 51.103 | 0.354 | 0.017 | 285.0 | 283.9 | 282.8 | 282.5 |
| 44 | 457.20 | 100.00 | 0.00 | 51.237 | 0.142 | 0.018 | 284.9 | 283.9 | 283.3 | 283.2 |
| 45 | 457.20 | 105.00 | 0.00 | 51.055 | 0.142 | 0.015 | 284.9 | 283.9 | 283.4 | 283.3 |
| 46 | 457.20 | 110.00 | 0.00 | 50.932 | 0.029 | 0.015 | 285.1 | 283.9 | 284.3 | 284.3 |

File : TAB176T

10-DEC-88
22-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
Config I(a)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.341 kPa

Mean gauged plenum pressure : 51.441 kPa
RMS gauged plenum pressure : 0.163 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.379 | 0.230 | 0.014 | 285.5 | 284.1 | 284.5 | 284.3 |
| 3 | 457.20 | -105.00 | 0.00 | 51.348 | 0.327 | 0.013 | 285.5 | 284.1 | 284.6 | 284.3 |
| 4 | 457.20 | -100.00 | 0.00 | 51.402 | 0.601 | 0.013 | 285.5 | 284.1 | 284.6 | 284.1 |
| 5 | 457.20 | -95.00 | 0.00 | 51.464 | 0.911 | 0.015 | 285.5 | 284.1 | 284.5 | 283.8 |
| 6 | 457.20 | -90.00 | 0.00 | 51.537 | 1.176 | 0.013 | 285.5 | 284.1 | 284.1 | 283.1 |
| 7 | 457.20 | -85.00 | 0.00 | 51.655 | 1.733 | 0.015 | 285.4 | 284.2 | 284.0 | 282.6 |
| 8 | 457.20 | -80.00 | 0.00 | 51.291 | 2.281 | 0.013 | 285.3 | 284.1 | 283.8 | 281.9 |
| 9 | 457.20 | -75.00 | 0.00 | 51.484 | 3.003 | 0.014 | 285.3 | 284.1 | 283.8 | 281.4 |
| 10 | 457.20 | -70.00 | 0.00 | 51.481 | 3.787 | 0.013 | 285.3 | 284.1 | 283.6 | 280.5 |
| 11 | 457.20 | -65.00 | 0.00 | 51.478 | 5.009 | 0.014 | 285.3 | 284.1 | 283.6 | 279.6 |
| 12 | 457.20 | -60.00 | 0.00 | 51.465 | 6.062 | 0.013 | 285.3 | 284.1 | 283.3 | 278.5 |
| 13 | 457.20 | -55.00 | 0.00 | 51.450 | 7.381 | 0.015 | 285.3 | 284.1 | 283.2 | 277.4 |
| 14 | 457.20 | -50.00 | 0.00 | 51.412 | 9.093 | 0.013 | 285.3 | 284.1 | 283.2 | 276.1 |
| 15 | 457.20 | -45.00 | 0.00 | 51.342 | 10.382 | 0.015 | 285.4 | 284.1 | 283.2 | 275.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.311 | 12.177 | 0.016 | 285.3 | 284.1 | 283.2 | 273.9 |
| 17 | 457.20 | -35.00 | 0.00 | 51.300 | 13.631 | 0.016 | 285.3 | 284.1 | 283.3 | 273.0 |
| 18 | 457.20 | -30.00 | 0.00 | 51.311 | 14.753 | 0.016 | 285.2 | 284.1 | 283.2 | 272.1 |
| 19 | 457.20 | -25.00 | 0.00 | 51.318 | 14.884 | 0.017 | 285.2 | 284.1 | 283.0 | 271.8 |
| 20 | 457.20 | -20.00 | 0.00 | 51.346 | 14.627 | 0.017 | 285.2 | 284.1 | 282.9 | 271.9 |
| 21 | 457.20 | -15.00 | 0.00 | 51.372 | 13.991 | 0.015 | 285.2 | 284.1 | 282.8 | 272.2 |
| 22 | 457.20 | -10.00 | 0.00 | 51.412 | 13.498 | 0.014 | 285.2 | 284.1 | 282.6 | 272.4 |
| 23 | 457.20 | -5.00 | 0.00 | 51.460 | 13.260 | 0.014 | 285.3 | 284.2 | 282.5 | 272.5 |
| 24 | 457.20 | 0.00 | 0.00 | 51.510 | 13.403 | 0.014 | 285.3 | 284.1 | 282.4 | 272.3 |
| 25 | 457.20 | 5.00 | 0.00 | 51.567 | 14.106 | 0.019 | 285.3 | 284.1 | 282.3 | 271.7 |
| 26 | 457.20 | 10.00 | 0.00 | 51.589 | 15.101 | 0.017 | 285.3 | 284.1 | 282.6 | 271.3 |
| 27 | 457.20 | 15.00 | 0.00 | 51.683 | 16.283 | 0.019 | 285.3 | 284.1 | 282.9 | 270.8 |
| 28 | 457.20 | 20.00 | 0.00 | 51.702 | 16.525 | 0.016 | 285.3 | 284.1 | 283.2 | 270.9 |
| 29 | 457.20 | 25.00 | 0.00 | 51.669 | 16.053 | 0.018 | 285.3 | 284.1 | 283.1 | 271.1 |
| 30 | 457.20 | 30.00 | 0.00 | 51.610 | 14.970 | 0.020 | 285.3 | 284.1 | 283.1 | 271.8 |
| 31 | 457.20 | 35.00 | 0.00 | 51.453 | 13.204 | 0.018 | 285.2 | 284.1 | 283.0 | 273.0 |
| 32 | 457.20 | 40.00 | 0.00 | 51.351 | 11.243 | 0.018 | 285.2 | 284.1 | 283.2 | 274.6 |
| 33 | 457.20 | 45.00 | 0.00 | 51.256 | 8.999 | 0.022 | 285.3 | 284.1 | 283.3 | 276.3 |
| 34 | 457.20 | 50.00 | 0.00 | 51.380 | 7.545 | 0.017 | 285.3 | 284.1 | 283.3 | 277.4 |
| 35 | 457.20 | 55.00 | 0.00 | 51.423 | 6.221 | 0.015 | 285.3 | 284.1 | 283.5 | 278.6 |
| 36 | 457.20 | 60.00 | 0.00 | 51.380 | 4.901 | 0.015 | 285.3 | 284.1 | 283.6 | 279.7 |
| 37 | 457.20 | 65.00 | 0.00 | 51.398 | 3.900 | 0.013 | 285.4 | 284.2 | 284.0 | 280.9 |
| 38 | 457.20 | 70.00 | 0.00 | 51.291 | 2.975 | 0.013 | 285.4 | 284.2 | 284.0 | 281.6 |
| 39 | 457.20 | 75.00 | 0.00 | 51.198 | 2.312 | 0.016 | 285.4 | 284.2 | 284.1 | 282.2 |
| 40 | 457.20 | 80.00 | 0.00 | 51.274 | 1.681 | 0.013 | 285.3 | 284.2 | 284.2 | 282.8 |
| 41 | 457.20 | 85.00 | 0.00 | 51.637 | 1.111 | 0.013 | 285.4 | 284.2 | 284.4 | 283.5 |
| 42 | 457.20 | 90.00 | 0.00 | 51.548 | 0.762 | 0.013 | 285.3 | 284.2 | 284.5 | 283.9 |
| 43 | 457.20 | 95.00 | 0.00 | 51.506 | 0.518 | 0.015 | 285.3 | 284.1 | 284.5 | 284.1 |
| 44 | 457.20 | 100.00 | 0.00 | 51.469 | 0.296 | 0.013 | 285.3 | 284.1 | 284.5 | 284.3 |
| 45 | 457.20 | 105.00 | 0.00 | 51.476 | 0.105 | 0.014 | 285.2 | 284.1 | 284.7 | 284.6 |
| 46 | 457.20 | 110.00 | 0.00 | 51.538 | 0.040 | 0.013 | 285.2 | 284.2 | 285.0 | 285.0 |

File : TAB149T

15-NOV-88
15-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config I(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.239 kPa

Mean gauged plenum pressure : 51.476 kPa
RMS gauged plenum pressure : 0.071 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.487 | 0.263 | 0.013 | 295.3 | 286.1 | 292.7 | 292.5 |
| 3 | 457.20 | -105.00 | 0.00 | 51.470 | 0.491 | 0.013 | 294.9 | 286.0 | 292.6 | 292.2 |
| 4 | 457.20 | -100.00 | 0.00 | 51.441 | 0.801 | 0.012 | 294.7 | 286.0 | 292.3 | 291.6 |
| 5 | 457.20 | -95.00 | 0.00 | 51.478 | 1.164 | 0.012 | 294.7 | 286.0 | 292.2 | 291.2 |
| 6 | 457.20 | -90.00 | 0.00 | 51.483 | 1.750 | 0.012 | 294.7 | 286.0 | 291.7 | 290.2 |
| 7 | 457.20 | -85.00 | 0.00 | 51.497 | 2.297 | 0.012 | 294.7 | 286.0 | 291.5 | 289.6 |
| 8 | 457.20 | -80.00 | 0.00 | 51.506 | 3.377 | 0.012 | 294.6 | 286.0 | 291.1 | 288.3 |
| 9 | 457.20 | -75.00 | 0.00 | 51.508 | 4.139 | 0.012 | 294.6 | 286.0 | 290.7 | 287.3 |
| 10 | 457.20 | -70.00 | 0.00 | 51.532 | 5.416 | 0.012 | 294.5 | 286.0 | 290.3 | 285.9 |
| 11 | 457.20 | -65.00 | 0.00 | 51.549 | 6.827 | 0.012 | 294.3 | 286.0 | 289.8 | 284.3 |
| 12 | 457.20 | -60.00 | 0.00 | 51.573 | 8.436 | 0.012 | 294.3 | 286.0 | 289.3 | 282.6 |
| 13 | 457.20 | -55.00 | 0.00 | 51.603 | 9.823 | 0.012 | 294.2 | 286.0 | 289.0 | 281.2 |
| 14 | 457.20 | -50.00 | 0.00 | 51.618 | 11.720 | 0.014 | 294.2 | 286.0 | 288.7 | 279.5 |
| 15 | 457.20 | -45.00 | 0.00 | 51.590 | 13.383 | 0.013 | 294.1 | 286.0 | 288.6 | 278.2 |
| 16 | 457.20 | -40.00 | 0.00 | 51.589 | 14.912 | 0.012 | 294.1 | 286.0 | 288.6 | 277.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 51.570 | 15.964 | 0.012 | 294.2 | 286.0 | 288.6 | 276.4 |
| 18 | 457.20 | -30.00 | 0.00 | 51.534 | 15.987 | 0.012 | 294.2 | 286.0 | 288.7 | 276.5 |
| 19 | 457.20 | -25.00 | 0.00 | 51.492 | 15.189 | 0.012 | 294.3 | 285.9 | 288.5 | 276.9 |
| 20 | 457.20 | -20.00 | 0.00 | 51.505 | 13.738 | 0.013 | 294.3 | 285.9 | 288.0 | 277.4 |
| 21 | 457.20 | -15.00 | 0.00 | 51.528 | 12.094 | 0.016 | 294.2 | 285.9 | 287.9 | 278.5 |
| 22 | 457.20 | -10.00 | 0.00 | 51.493 | 10.862 | 0.016 | 294.2 | 285.9 | 287.7 | 279.2 |
| 23 | 457.20 | -5.00 | 0.00 | 51.481 | 10.228 | 0.019 | 294.2 | 285.9 | 287.7 | 279.7 |
| 24 | 457.20 | 0.00 | 0.00 | 51.479 | 10.285 | 0.018 | 294.6 | 285.9 | 287.7 | 279.6 |
| 25 | 457.20 | 5.00 | 0.00 | 51.434 | 11.060 | 0.015 | 295.1 | 285.9 | 287.7 | 279.0 |
| 26 | 457.20 | 10.00 | 0.00 | 51.477 | 12.231 | 0.015 | 295.2 | 285.9 | 287.8 | 278.3 |
| 27 | 457.20 | 15.00 | 0.00 | 51.523 | 13.810 | 0.014 | 295.1 | 285.9 | 288.0 | 277.4 |
| 28 | 457.20 | 20.00 | 0.00 | 51.494 | 15.275 | 0.017 | 295.3 | 285.9 | 288.2 | 276.5 |
| 29 | 457.20 | 25.00 | 0.00 | 51.505 | 16.151 | 0.014 | 295.3 | 285.9 | 288.4 | 276.1 |
| 30 | 457.20 | 30.00 | 0.00 | 51.496 | 15.994 | 0.015 | 295.3 | 285.9 | 288.4 | 276.2 |
| 31 | 457.20 | 35.00 | 0.00 | 51.467 | 14.510 | 0.014 | 295.3 | 285.9 | 288.6 | 277.4 |
| 32 | 457.20 | 40.00 | 0.00 | 51.462 | 12.133 | 0.016 | 294.9 | 285.9 | 288.6 | 279.1 |
| 33 | 457.20 | 45.00 | 0.00 | 51.447 | 10.132 | 0.015 | 294.5 | 285.8 | 288.5 | 280.5 |
| 34 | 457.20 | 50.00 | 0.00 | 51.414 | 7.901 | 0.014 | 294.3 | 285.8 | 288.9 | 282.6 |
| 35 | 457.20 | 55.00 | 0.00 | 51.352 | 6.368 | 0.015 | 294.3 | 285.9 | 289.2 | 284.0 |
| 36 | 457.20 | 60.00 | 0.00 | 51.356 | 4.817 | 0.019 | 294.3 | 285.9 | 289.7 | 285.8 |
| 37 | 457.20 | 65.00 | 0.00 | 51.350 | 3.638 | 0.015 | 294.3 | 285.9 | 290.2 | 287.2 |
| 38 | 457.20 | 70.00 | 0.00 | 51.359 | 3.134 | 0.014 | 294.4 | 285.9 | 291.1 | 288.5 |
| 39 | 457.20 | 75.00 | 0.00 | 51.367 | 1.921 | 0.015 | 294.3 | 286.0 | 291.2 | 289.6 |
| 40 | 457.20 | 80.00 | 0.00 | 51.382 | 1.672 | 0.013 | 294.5 | 286.0 | 292.0 | 290.6 |
| 41 | 457.20 | 85.00 | 0.00 | 51.339 | 0.991 | 0.016 | 294.5 | 286.0 | 292.1 | 291.3 |
| 42 | 457.20 | 90.00 | 0.00 | 51.413 | 0.697 | 0.014 | 294.6 | 286.0 | 292.4 | 291.8 |
| 43 | 457.20 | 95.00 | 0.00 | 51.401 | 0.504 | 0.014 | 294.7 | 286.1 | 292.8 | 292.4 |
| 44 | 457.20 | 100.00 | 0.00 | 51.403 | 0.120 | 0.022 | 294.5 | 286.1 | 293.0 | 292.9 |
| 45 | 457.20 | 105.00 | 0.00 | 51.427 | 0.086 | 0.019 | 294.6 | 286.1 | 293.2 | 293.1 |
| 46 | 457.20 | 110.00 | 0.00 | 51.453 | 0.053 | 0.016 | 294.7 | 286.1 | 293.4 | 293.4 |

File : TAB148T

15-NOV-88
15-NOV-88

Reduced experimental data file

CONFIGURATION I

Unexcited, unheated jet, Mj = 0.8
DRPTAB, CONFIG I(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.341 kPa

Mean gauged plenum pressure : 51.185 kPa
RMS gauged plenum pressure : 0.111 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.208 | 0.344 | 0.012 | 293.4 | 286.2 | 290.9 | 290.6 |
| 3 | 457.20 | 0.00 | -58.00 | 51.210 | 0.407 | 0.012 | 293.5 | 286.2 | 290.8 | 290.5 |
| 4 | 457.20 | 0.00 | -56.00 | 51.239 | 0.585 | 0.012 | 293.6 | 286.3 | 290.3 | 289.8 |
| 5 | 457.20 | 0.00 | -54.00 | 51.277 | 0.730 | 0.012 | 293.6 | 286.3 | 290.3 | 289.7 |
| 6 | 457.20 | 0.00 | -52.00 | 51.279 | 0.806 | 0.012 | 293.7 | 286.3 | 290.4 | 289.7 |
| 7 | 457.20 | 0.00 | -50.00 | 51.317 | 1.129 | 0.012 | 293.8 | 286.3 | 290.5 | 289.6 |
| 8 | 457.20 | 0.00 | -48.00 | 51.370 | 1.201 | 0.012 | 294.2 | 286.3 | 290.7 | 289.7 |
| 9 | 457.20 | 0.00 | -46.00 | 51.365 | 1.369 | 0.013 | 294.2 | 286.3 | 290.1 | 289.0 |
| 10 | 457.20 | 0.00 | -44.00 | 51.335 | 1.718 | 0.014 | 294.4 | 286.3 | 290.1 | 288.7 |
| 11 | 457.20 | 0.00 | -42.00 | 51.309 | 2.008 | 0.013 | 294.4 | 286.3 | 289.9 | 288.2 |
| 12 | 457.20 | 0.00 | -40.00 | 51.322 | 2.371 | 0.016 | 294.6 | 286.3 | 290.3 | 288.3 |
| 13 | 457.20 | 0.00 | -38.00 | 51.304 | 2.615 | 0.018 | 294.7 | 286.3 | 289.8 | 287.6 |
| 14 | 457.20 | 0.00 | -36.00 | 51.294 | 3.021 | 0.015 | 294.7 | 286.3 | 289.7 | 287.2 |
| 15 | 457.20 | 0.00 | -34.00 | 51.259 | 3.370 | 0.016 | 294.8 | 286.3 | 289.6 | 286.8 |
| 16 | 457.20 | 0.00 | -32.00 | 51.262 | 3.879 | 0.021 | 294.8 | 286.3 | 289.5 | 286.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -30.00 | 51.227 | 4.360 | 0.019 | 294.7 | 286.4 | 289.1 | 285.5 |
| 18 | 457.20 | 0.00 | -28.00 | 51.163 | 4.791 | 0.017 | 294.7 | 286.3 | 289.1 | 285.2 |
| 19 | 457.20 | 0.00 | -26.00 | 51.180 | 5.150 | 0.016 | 294.8 | 286.3 | 288.9 | 284.7 |
| 20 | 457.20 | 0.00 | -24.00 | 51.207 | 5.898 | 0.022 | 294.7 | 286.2 | 288.6 | 283.8 |
| 21 | 457.20 | 0.00 | -22.00 | 51.183 | 6.361 | 0.019 | 294.7 | 286.2 | 288.4 | 283.3 |
| 22 | 457.20 | 0.00 | -20.00 | 51.205 | 6.917 | 0.012 | 295.2 | 286.2 | 288.6 | 283.0 |
| 23 | 457.20 | 0.00 | -18.00 | 51.201 | 7.257 | 0.012 | 295.8 | 286.2 | 288.4 | 282.6 |
| 24 | 457.20 | 0.00 | -16.00 | 51.185 | 7.869 | 0.013 | 295.9 | 286.2 | 288.1 | 281.8 |
| 25 | 457.20 | 0.00 | -14.00 | 51.159 | 8.352 | 0.012 | 295.9 | 286.2 | 288.2 | 281.6 |
| 26 | 457.20 | 0.00 | -12.00 | 51.126 | 8.794 | 0.012 | 295.9 | 286.2 | 288.4 | 281.4 |
| 27 | 457.20 | 0.00 | -10.00 | 51.095 | 9.251 | 0.012 | 295.9 | 286.2 | 288.1 | 280.8 |
| 28 | 457.20 | 0.00 | -8.00 | 51.101 | 9.611 | 0.012 | 295.9 | 286.2 | 288.0 | 280.4 |
| 29 | 457.20 | 0.00 | -6.00 | 51.148 | 9.732 | 0.013 | 295.6 | 286.1 | 288.1 | 280.4 |
| 30 | 457.20 | 0.00 | -4.00 | 51.143 | 9.818 | 0.015 | 295.1 | 286.2 | 287.9 | 280.2 |
| 31 | 457.20 | 0.00 | -2.00 | 51.103 | 10.163 | 0.014 | 294.9 | 286.2 | 287.9 | 279.9 |
| 32 | 457.20 | 0.00 | 0.00 | 51.079 | 10.117 | 0.013 | 294.8 | 286.3 | 287.9 | 279.9 |
| 33 | 457.20 | 0.00 | 2.00 | 51.063 | 9.953 | 0.014 | 294.7 | 286.3 | 287.8 | 280.0 |
| 34 | 457.20 | 0.00 | 4.00 | 51.026 | 9.863 | 0.016 | 294.7 | 286.3 | 287.9 | 280.1 |
| 35 | 457.20 | 0.00 | 6.00 | 51.014 | 9.506 | 0.013 | 295.0 | 286.3 | 288.1 | 280.6 |
| 36 | 457.20 | 0.00 | 8.00 | 51.016 | 9.297 | 0.015 | 295.2 | 286.3 | 288.4 | 281.0 |
| 37 | 457.20 | 0.00 | 10.00 | 50.954 | 8.917 | 0.015 | 295.2 | 286.3 | 288.1 | 281.0 |

File : TAB167T 8-DEC-88
21-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
Config. I(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.442 kPa

Mean gauged plenum pressure : 51.233 kPa
RMS gauged plenum pressure : 0.242 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.407 | 0.093 | 0.012 | 282.2 | 283.7 | 281.3 | 281.2 |
| 3 | 457.20 | -105.00 | 0.00 | 51.474 | 0.186 | 0.012 | 282.2 | 283.7 | 281.6 | 281.4 |
| 4 | 457.20 | -100.00 | 0.00 | 51.465 | 0.431 | 0.012 | 282.3 | 283.7 | 281.3 | 280.9 |
| 5 | 457.20 | -95.00 | 0.00 | 51.451 | 0.842 | 0.012 | 282.3 | 283.7 | 281.3 | 280.6 |
| 6 | 457.20 | -90.00 | 0.00 | 51.362 | 1.115 | 0.012 | 282.3 | 283.7 | 281.1 | 280.2 |
| 7 | 457.20 | -85.00 | 0.00 | 51.279 | 1.714 | 0.014 | 282.2 | 283.7 | 281.3 | 279.9 |
| 8 | 457.20 | -80.00 | 0.00 | 51.236 | 2.286 | 0.013 | 282.3 | 283.7 | 281.2 | 279.4 |
| 9 | 457.20 | -75.00 | 0.00 | 51.219 | 3.191 | 0.012 | 282.3 | 283.7 | 281.1 | 278.5 |
| 10 | 457.20 | -70.00 | 0.00 | 51.179 | 3.788 | 0.012 | 282.4 | 283.7 | 281.3 | 278.3 |
| 11 | 457.20 | -65.00 | 0.00 | 51.202 | 4.942 | 0.013 | 282.5 | 283.8 | 281.2 | 277.3 |
| 12 | 457.20 | -60.00 | 0.00 | 51.255 | 6.520 | 0.013 | 282.3 | 283.7 | 281.0 | 275.9 |
| 13 | 457.20 | -55.00 | 0.00 | 51.314 | 7.878 | 0.013 | 282.3 | 283.7 | 280.8 | 274.7 |
| 14 | 457.20 | -50.00 | 0.00 | 51.461 | 9.477 | 0.014 | 282.3 | 283.7 | 281.1 | 273.8 |
| 15 | 457.20 | -45.00 | 0.00 | 51.515 | 10.894 | 0.013 | 282.4 | 283.7 | 281.3 | 273.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.429 | 12.951 | 0.013 | 282.5 | 283.7 | 281.5 | 271.7 |
| 17 | 457.20 | -35.00 | 0.00 | 51.385 | 14.433 | 0.013 | 282.5 | 283.7 | 281.6 | 270.8 |
| 18 | 457.20 | -30.00 | 0.00 | 51.314 | 15.025 | 0.014 | 282.6 | 283.7 | 281.4 | 270.2 |
| 19 | 457.20 | -25.00 | 0.00 | 51.215 | 14.550 | 0.014 | 282.7 | 283.8 | 281.4 | 270.5 |
| 20 | 457.20 | -20.00 | 0.00 | 51.122 | 13.530 | 0.015 | 282.7 | 283.8 | 281.3 | 271.1 |
| 21 | 457.20 | -15.00 | 0.00 | 50.866 | 12.119 | 0.017 | 282.8 | 283.8 | 280.9 | 271.7 |
| 22 | 457.20 | -10.00 | 0.00 | 50.886 | 11.004 | 0.013 | 282.8 | 283.8 | 280.6 | 272.2 |
| 23 | 457.20 | -5.00 | 0.00 | 50.840 | 10.318 | 0.017 | 282.9 | 283.8 | 280.6 | 272.7 |
| 24 | 457.20 | 0.00 | 0.00 | 50.745 | 10.017 | 0.016 | 283.0 | 283.8 | 280.6 | 272.9 |
| 25 | 457.20 | 5.00 | 0.00 | 50.661 | 10.542 | 0.017 | 283.1 | 283.8 | 280.8 | 272.7 |
| 26 | 457.20 | 10.00 | 0.00 | 50.632 | 11.257 | 0.017 | 283.1 | 283.8 | 280.7 | 272.1 |
| 27 | 457.20 | 15.00 | 0.00 | 51.167 | 12.861 | 0.015 | 282.9 | 283.8 | 281.1 | 271.4 |
| 28 | 457.20 | 20.00 | 0.00 | 51.171 | 14.460 | 0.018 | 282.9 | 283.8 | 281.4 | 270.6 |
| 29 | 457.20 | 25.00 | 0.00 | 51.222 | 15.123 | 0.015 | 282.9 | 283.8 | 281.7 | 270.4 |
| 30 | 457.20 | 30.00 | 0.00 | 51.232 | 14.914 | 0.013 | 283.0 | 283.8 | 281.9 | 270.7 |
| 31 | 457.20 | 35.00 | 0.00 | 51.392 | 13.457 | 0.014 | 283.1 | 283.8 | 282.1 | 271.9 |
| 32 | 457.20 | 40.00 | 0.00 | 51.489 | 11.850 | 0.018 | 283.0 | 283.9 | 281.6 | 272.6 |
| 33 | 457.20 | 45.00 | 0.00 | 51.564 | 9.687 | 0.015 | 283.1 | 283.8 | 281.3 | 273.8 |
| 34 | 457.20 | 50.00 | 0.00 | 51.462 | 7.545 | 0.015 | 283.1 | 283.8 | 281.2 | 275.3 |
| 35 | 457.20 | 55.00 | 0.00 | 51.351 | 5.796 | 0.015 | 283.1 | 283.8 | 280.7 | 276.1 |
| 36 | 457.20 | 60.00 | 0.00 | 51.178 | 3.959 | 0.019 | 283.0 | 283.8 | 281.1 | 277.9 |
| 37 | 457.20 | 65.00 | 0.00 | 51.099 | 3.456 | 0.016 | 282.9 | 283.7 | 280.9 | 278.1 |
| 38 | 457.20 | 70.00 | 0.00 | 51.063 | 2.197 | 0.013 | 283.0 | 283.8 | 281.5 | 279.7 |
| 39 | 457.20 | 75.00 | 0.00 | 51.262 | 1.360 | 0.020 | 282.9 | 283.8 | 281.6 | 280.5 |
| 40 | 457.20 | 80.00 | 0.00 | 51.493 | 1.116 | 0.020 | 283.1 | 283.8 | 281.7 | 280.8 |
| 41 | 457.20 | 85.00 | 0.00 | 51.606 | 0.906 | 0.017 | 283.2 | 283.8 | 281.8 | 281.1 |
| 42 | 457.20 | 90.00 | 0.00 | 51.573 | 0.616 | 0.019 | 283.3 | 283.8 | 281.9 | 281.4 |
| 43 | 457.20 | 95.00 | 0.00 | 51.439 | 0.299 | 0.020 | 283.2 | 283.8 | 282.0 | 281.8 |
| 44 | 457.20 | 100.00 | 0.00 | 51.258 | 0.198 | 0.020 | 283.3 | 283.8 | 282.2 | 282.0 |
| 45 | 457.20 | 105.00 | 0.00 | 51.031 | 0.090 | 0.023 | 283.3 | 283.8 | 282.1 | 282.0 |
| 46 | 457.20 | 110.00 | 0.00 | 50.920 | 0.012 | 0.025 | 283.2 | 283.8 | 282.6 | 282.6 |

File : TAB180T

10-DEC-88
23-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
Config I(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.138 kPa

Mean gauged plenum pressure : 51.259 kPa
RMS gauged plenum pressure : 0.143 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.306 | 0.230 | 0.012 | 282.9 | 283.8 | 282.3 | 282.1 |
| 3 | 457.20 | -105.00 | 0.00 | 51.470 | 0.369 | 0.012 | 282.9 | 283.8 | 282.4 | 282.1 |
| 4 | 457.20 | -100.00 | 0.00 | 51.470 | 0.662 | 0.012 | 282.8 | 283.9 | 282.3 | 281.8 |
| 5 | 457.20 | -95.00 | 0.00 | 51.377 | 0.964 | 0.012 | 282.9 | 283.9 | 282.2 | 281.4 |
| 6 | 457.20 | -90.00 | 0.00 | 51.405 | 1.372 | 0.012 | 282.9 | 283.9 | 282.2 | 281.1 |
| 7 | 457.20 | -85.00 | 0.00 | 51.271 | 1.718 | 0.012 | 282.9 | 283.8 | 282.2 | 280.8 |
| 8 | 457.20 | -80.00 | 0.00 | 51.210 | 2.396 | 0.012 | 283.0 | 283.9 | 282.2 | 280.3 |
| 9 | 457.20 | -75.00 | 0.00 | 51.169 | 3.580 | 0.012 | 283.0 | 283.9 | 282.0 | 279.1 |
| 10 | 457.20 | -70.00 | 0.00 | 51.078 | 4.190 | 0.013 | 283.1 | 283.9 | 282.0 | 278.6 |
| 11 | 457.20 | -65.00 | 0.00 | 51.022 | 5.217 | 0.012 | 283.1 | 283.8 | 281.9 | 277.8 |
| 12 | 457.20 | -60.00 | 0.00 | 51.001 | 6.637 | 0.012 | 283.1 | 283.9 | 281.7 | 276.5 |
| 13 | 457.20 | -55.00 | 0.00 | 51.341 | 8.003 | 0.012 | 283.1 | 283.8 | 282.0 | 275.7 |
| 14 | 457.20 | -50.00 | 0.00 | 51.350 | 9.678 | 0.013 | 283.2 | 283.8 | 282.0 | 274.5 |
| 15 | 457.20 | -45.00 | 0.00 | 51.385 | 11.220 | 0.013 | 283.2 | 283.8 | 282.1 | 273.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.372 | 12.790 | 0.012 | 283.1 | 283.8 | 282.1 | 272.4 |
| 17 | 457.20 | -35.00 | 0.00 | 51.394 | 13.911 | 0.012 | 283.2 | 283.8 | 282.3 | 271.8 |
| 18 | 457.20 | -30.00 | 0.00 | 51.360 | 14.301 | 0.012 | 283.2 | 283.8 | 282.1 | 271.3 |
| 19 | 457.20 | -25.00 | 0.00 | 51.384 | 13.650 | 0.012 | 283.2 | 283.8 | 281.8 | 271.5 |
| 20 | 457.20 | -20.00 | 0.00 | 51.424 | 12.782 | 0.013 | 283.2 | 283.8 | 281.6 | 271.9 |
| 21 | 457.20 | -15.00 | 0.00 | 51.405 | 11.799 | 0.012 | 283.2 | 283.8 | 281.4 | 272.4 |
| 22 | 457.20 | -10.00 | 0.00 | 51.355 | 10.764 | 0.012 | 283.2 | 283.8 | 281.3 | 273.0 |
| 23 | 457.20 | -5.00 | 0.00 | 51.194 | 10.349 | 0.013 | 283.2 | 283.8 | 281.1 | 273.1 |
| 24 | 457.20 | 0.00 | 0.00 | 51.196 | 10.416 | 0.012 | 283.2 | 283.8 | 281.0 | 273.0 |
| 25 | 457.20 | 5.00 | 0.00 | 51.222 | 11.002 | 0.013 | 283.2 | 283.8 | 281.1 | 272.7 |
| 26 | 457.20 | 10.00 | 0.00 | 51.166 | 12.208 | 0.012 | 283.3 | 283.8 | 281.3 | 272.0 |
| 27 | 457.20 | 15.00 | 0.00 | 51.205 | 13.388 | 0.012 | 283.2 | 283.8 | 281.6 | 271.5 |
| 28 | 457.20 | 20.00 | 0.00 | 51.239 | 14.286 | 0.012 | 283.1 | 283.8 | 281.8 | 271.0 |
| 29 | 457.20 | 25.00 | 0.00 | 51.252 | 15.181 | 0.012 | 283.1 | 283.8 | 282.0 | 270.6 |
| 30 | 457.20 | 30.00 | 0.00 | 51.248 | 14.619 | 0.013 | 283.1 | 283.8 | 282.3 | 271.3 |
| 31 | 457.20 | 35.00 | 0.00 | 51.213 | 13.452 | 0.013 | 283.1 | 283.8 | 282.0 | 271.8 |
| 32 | 457.20 | 40.00 | 0.00 | 51.143 | 12.003 | 0.012 | 283.1 | 283.8 | 282.0 | 272.8 |
| 33 | 457.20 | 45.00 | 0.00 | 51.073 | 10.095 | 0.013 | 283.2 | 283.8 | 282.1 | 274.3 |
| 34 | 457.20 | 50.00 | 0.00 | 51.009 | 8.329 | 0.013 | 283.2 | 283.8 | 281.9 | 275.4 |
| 35 | 457.20 | 55.00 | 0.00 | 50.981 | 6.759 | 0.013 | 283.2 | 283.8 | 281.9 | 276.6 |
| 36 | 457.20 | 60.00 | 0.00 | 51.338 | 5.538 | 0.013 | 283.2 | 283.8 | 282.1 | 277.7 |
| 37 | 457.20 | 65.00 | 0.00 | 51.327 | 4.408 | 0.013 | 283.2 | 283.8 | 282.1 | 278.6 |
| 38 | 457.20 | 70.00 | 0.00 | 51.321 | 3.329 | 0.016 | 283.2 | 283.8 | 282.3 | 279.6 |
| 39 | 457.20 | 75.00 | 0.00 | 51.379 | 2.335 | 0.013 | 283.2 | 283.8 | 282.4 | 280.5 |
| 40 | 457.20 | 80.00 | 0.00 | 51.410 | 1.724 | 0.014 | 283.3 | 283.8 | 282.5 | 281.1 |
| 41 | 457.20 | 85.00 | 0.00 | 51.444 | 1.193 | 0.014 | 283.3 | 283.8 | 282.5 | 281.5 |
| 42 | 457.20 | 90.00 | 0.00 | 51.481 | 0.873 | 0.013 | 283.3 | 283.8 | 282.6 | 281.9 |
| 43 | 457.20 | 95.00 | 0.00 | 51.130 | 0.552 | 0.014 | 283.3 | 283.8 | 282.7 | 282.2 |
| 44 | 457.20 | 100.00 | 0.00 | 51.156 | 0.341 | 0.015 | 283.3 | 283.8 | 282.7 | 282.4 |
| 45 | 457.20 | 105.00 | 0.00 | 51.118 | 0.162 | 0.016 | 283.3 | 283.8 | 282.8 | 282.7 |
| 46 | 457.20 | 110.00 | 0.00 | 51.093 | 0.065 | 0.014 | 283.3 | 283.8 | 282.8 | 282.7 |

File : TAB161T 17-NOV-88
17-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config III(a)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.544 kPa

Mean gauged plenum pressure : 51.441 kPa
RMS gauged plenum pressure : 0.312 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.544 | 0.262 | 0.014 | 288.5 | 284.9 | 286.7 | 286.5 |
| 3 | 457.20 | -105.00 | 0.00 | 51.369 | 0.435 | 0.012 | 288.7 | 284.8 | 286.9 | 286.5 |
| 4 | 457.20 | -100.00 | 0.00 | 51.257 | 0.670 | 0.013 | 288.7 | 284.9 | 286.5 | 285.9 |
| 5 | 457.20 | -95.00 | 0.00 | 51.359 | 1.004 | 0.012 | 288.6 | 284.9 | 286.6 | 285.8 |
| 6 | 457.20 | -90.00 | 0.00 | 51.369 | 1.387 | 0.013 | 288.5 | 284.9 | 286.0 | 284.9 |
| 7 | 457.20 | -85.00 | 0.00 | 51.370 | 2.118 | 0.013 | 288.4 | 284.9 | 286.0 | 284.3 |
| 8 | 457.20 | -80.00 | 0.00 | 51.355 | 2.554 | 0.012 | 288.5 | 284.9 | 285.7 | 283.6 |
| 9 | 457.20 | -75.00 | 0.00 | 51.367 | 3.345 | 0.013 | 288.6 | 284.9 | 285.9 | 283.2 |
| 10 | 457.20 | -70.00 | 0.00 | 51.361 | 4.516 | 0.013 | 288.4 | 285.0 | 285.8 | 282.2 |
| 11 | 457.20 | -65.00 | 0.00 | 50.880 | 5.260 | 0.013 | 288.5 | 285.0 | 285.4 | 281.2 |
| 12 | 457.20 | -60.00 | 0.00 | 50.903 | 6.606 | 0.013 | 288.5 | 285.0 | 285.4 | 280.1 |
| 13 | 457.20 | -55.00 | 0.00 | 50.939 | 7.819 | 0.013 | 288.7 | 284.9 | 285.2 | 279.0 |
| 14 | 457.20 | -50.00 | 0.00 | 50.893 | 9.054 | 0.014 | 288.7 | 285.0 | 285.4 | 278.3 |
| 15 | 457.20 | -45.00 | 0.00 | 50.859 | 10.745 | 0.013 | 288.6 | 284.9 | 285.3 | 277.0 |
| 16 | 457.20 | -40.00 | 0.00 | 50.866 | 12.253 | 0.013 | 288.5 | 284.9 | 285.1 | 275.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 50.860 | 13.687 | 0.014 | 288.5 | 285.0 | 285.0 | 274.6 |
| 18 | 457.20 | -30.00 | 0.00 | 50.821 | 14.916 | 0.013 | 288.5 | 285.0 | 284.8 | 273.5 |
| 19 | 457.20 | -25.00 | 0.00 | 51.486 | 15.900 | 0.015 | 288.8 | 285.0 | 284.7 | 272.8 |
| 20 | 457.20 | -20.00 | 0.00 | 51.475 | 16.321 | 0.015 | 288.6 | 284.9 | 284.8 | 272.6 |
| 21 | 457.20 | -15.00 | 0.00 | 51.449 | 16.085 | 0.013 | 288.9 | 285.0 | 284.5 | 272.4 |
| *22* | *457.20* | *-10.00* | *0.00* | *51.425* | *15.837* | *0.014* | *288.9* | *284.9* | *284.2* | *272.3* |
| 23 | 457.20 | -5.00 | 0.00 | 51.433 | 15.506 | 0.018 | 289.1 | 285.0 | 283.9 | 272.3 |
| 24 | 457.20 | 0.00 | 0.00 | 51.466 | 15.389 | 0.016 | 289.2 | 284.9 | 284.1 | 272.5 |
| 25 | 457.20 | 5.00 | 0.00 | 51.513 | 15.897 | 0.015 | 289.1 | 285.0 | 284.1 | 272.2 |
| 26 | 457.20 | 10.00 | 0.00 | 51.520 | 16.086 | 0.014 | 289.1 | 284.9 | 284.3 | 272.3 |
| 27 | 457.20 | 15.00 | 0.00 | 51.558 | 16.694 | 0.014 | 289.2 | 284.9 | 284.5 | 272.0 |
| 28 | 457.20 | 20.00 | 0.00 | 51.563 | 16.380 | 0.017 | 289.1 | 284.9 | 284.3 | 272.1 |
| 29 | 457.20 | 25.00 | 0.00 | 51.525 | 15.822 | 0.018 | 288.8 | 284.9 | 284.8 | 272.9 |
| 30 | 457.20 | 30.00 | 0.00 | 51.513 | 14.421 | 0.016 | 288.8 | 284.9 | 285.0 | 274.1 |
| 31 | 457.20 | 35.00 | 0.00 | 51.502 | 12.693 | 0.018 | 288.9 | 284.9 | 285.1 | 275.4 |
| 32 | 457.20 | 40.00 | 0.00 | 51.562 | 10.806 | 0.016 | 288.9 | 284.9 | 284.7 | 276.3 |
| 33 | 457.20 | 45.00 | 0.00 | 51.556 | 9.318 | 0.020 | 288.9 | 284.9 | 285.1 | 277.8 |
| 34 | 457.20 | 50.00 | 0.00 | 51.528 | 6.644 | 0.018 | 289.0 | 284.9 | 285.3 | 280.0 |
| 35 | 457.20 | 55.00 | 0.00 | 51.528 | 5.412 | 0.021 | 288.7 | 284.9 | 285.3 | 281.0 |
| 36 | 457.20 | 60.00 | 0.00 | 51.604 | 4.745 | 0.018 | 288.6 | 284.9 | 285.3 | 281.5 |
| 37 | 457.20 | 65.00 | 0.00 | 51.603 | 2.954 | 0.016 | 288.8 | 284.9 | 286.0 | 283.6 |
| 38 | 457.20 | 70.00 | 0.00 | 51.591 | 2.621 | 0.017 | 288.8 | 284.9 | 285.5 | 283.4 |
| 39 | 457.20 | 75.00 | 0.00 | 51.809 | 1.761 | 0.020 | 288.6 | 284.9 | 286.2 | 284.8 |
| *40* | *457.20* | *80.00* | *0.00* | *51.798* | 1.272 | *0.021* | *288.7* | *284.9* | *286.8* | 285.7 |
| 41 | 457.20 | 85.00 | 0.00 | 51.755 | 1.064 | 0.018 | 288.7 | 284.9 | 286.3 | 285.4 |
| 42 | 457.20 | 90.00 | 0.00 | 51.710 | 0.732 | 0.018 | 288.7 | 284.9 | 286.2 | 285.6 |
| 43 | 457.20 | 95.00 | 0.00 | 51.693 | 0.391 | 0.024 | 288.9 | 284.9 | 286.8 | 286.5 |
| 44 | 457.20 | 100.00 | 0.00 | 51.729 | 0.243 | 0.017 | 288.8 | 284.9 | 287.0 | 286.8 |
| 45 | 457.20 | 105.00 | 0.00 | 51.712 | 0.108 | 0.017 | 289.0 | 284.9 | 287.1 | 287.0 |
| 46 | 457.20 | 110.00 | 0.00 | 52.113 | 0.061 | 0.018 | 289.0 | 284.9 | 287.1 | 287.0 |

File : TAB162T

17-NOV-88
17-NOV-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config III(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.510 kPa

Mean gauged plenum pressure : 51.110 kPa
RMS gauged plenum pressure : 0.290 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 51.615 | 0.014 | 0.013 | 289.0 | 284.9 | 287.4 | 287.4 |
| 3 | 457.20 | 0.00 | -97.00 | 51.563 | 0.013 | 0.014 | 288.9 | 284.9 | 287.4 | 287.4 |
| 4 | 457.20 | 0.00 | -94.00 | 51.481 | 0.012 | 0.017 | 289.1 | 284.9 | 288.1 | 288.1 |
| 5 | 457.20 | 0.00 | -91.00 | 51.452 | 0.011 | 0.017 | 289.1 | 284.9 | 287.6 | 287.6 |
| 6 | 457.20 | 0.00 | -88.00 | 51.428 | 0.011 | 0.015 | 289.1 | 284.9 | 287.6 | 287.6 |
| 7 | 457.20 | 0.00 | -85.00 | 51.498 | 0.011 | 0.013 | 289.8 | 284.9 | 287.5 | 287.5 |
| 8 | 457.20 | 0.00 | -82.00 | 51.499 | 0.011 | 0.013 | 289.9 | 284.9 | 287.4 | 287.4 |
| 9 | 457.20 | 0.00 | -79.00 | 51.521 | 0.012 | 0.014 | 289.7 | 284.9 | 287.1 | 287.1 |
| 10 | 457.20 | 0.00 | -76.00 | 51.522 | 0.025 | 0.012 | 289.4 | 284.9 | 286.6 | 286.6 |
| 11 | 457.20 | 0.00 | -73.00 | 51.514 | 0.105 | 0.013 | 289.3 | 284.9 | 286.7 | 286.6 |
| 12 | 457.20 | 0.00 | -70.00 | 51.530 | 0.221 | 0.013 | 289.1 | 284.8 | 286.2 | 286.0 |
| 13 | 457.20 | 0.00 | -67.00 | 51.483 | 0.283 | 0.013 | 289.1 | 284.8 | 286.5 | 286.3 |
| 14 | 457.20 | 0.00 | -64.00 | 50.983 | 0.454 | 0.013 | 289.0 | 284.9 | 285.9 | 285.5 |
| 15 | 457.20 | 0.00 | -61.00 | 50.993 | 0.695 | 0.013 | 289.0 | 284.9 | 285.8 | 285.2 |
| 16 | 457.20 | 0.00 | -58.00 | 51.002 | 1.047 | 0.014 | 289.1 | 284.9 | 285.5 | 284.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -55.00 | 51.077 | 1.506 | 0.014 | 288.9 | 284.9 | 285.5 | 284.3 |
| 18 | 457.20 | 0.00 | -52.00 | 51.081 | 1.901 | 0.013 | 289.0 | 284.9 | 285.2 | 283.6 |
| 19 | 457.20 | 0.00 | -49.00 | 51.100 | 2.312 | 0.013 | 289.1 | 284.8 | 284.8 | 282.9 |
| 20 | 457.20 | 0.00 | -46.00 | 51.064 | 2.907 | 0.013 | 289.1 | 284.9 | 284.6 | 282.2 |
| 21 | 457.20 | 0.00 | -43.00 | 51.052 | 3.712 | 0.013 | 289.1 | 284.9 | 284.8 | 281.8 |
| 22 | 457.20 | 0.00 | -40.00 | 51.031 | 4.510 | 0.013 | 289.0 | 284.9 | 284.6 | 281.0 |
| 23 | 457.20 | 0.00 | -37.00 | 51.061 | 5.539 | 0.013 | 289.0 | 284.9 | 284.6 | 280.2 |
| 24 | 457.20 | 0.00 | -34.00 | 51.029 | 6.537 | 0.016 | 288.9 | 284.9 | 284.8 | 279.6 |
| 25 | 457.20 | 0.00 | -31.00 | 50.973 | 7.523 | 0.013 | 288.9 | 284.9 | 284.5 | 278.6 |
| 26 | 457.20 | 0.00 | -28.00 | 50.989 | 8.626 | 0.012 | 289.1 | 284.9 | 284.5 | 277.7 |
| 27 | 457.20 | 0.00 | -25.00 | 50.986 | 9.965 | 0.014 | 289.1 | 284.9 | 285.1 | 277.3 |
| 28 | 457.20 | 0.00 | -22.00 | 50.962 | 11.178 | 0.017 | 289.1 | 284.9 | 284.6 | 276.0 |
| 29 | 457.20 | 0.00 | -19.00 | 50.922 | 12.269 | 0.013 | 289.0 | 284.9 | 284.4 | 275.0 |
| 30 | 457.20 | 0.00 | -16.00 | 50.907 | 13.471 | 0.015 | 289.1 | 284.9 | 284.7 | 274.4 |
| 31 | 457.20 | 0.00 | -13.00 | 50.870 | 14.484 | 0.013 | 289.0 | 284.9 | 284.8 | 273.8 |
| 32 | 457.20 | 0.00 | -10.00 | 50.833 | 15.137 | 0.014 | 289.0 | 284.9 | 284.8 | 273.4 |
| 33 | 457.20 | 0.00 | -7.00 | 50.831 | 15.549 | 0.017 | 288.8 | 284.9 | 284.6 | 272.9 |
| 34 | 457.20 | 0.00 | -4.00 | 50.810 | 15.650 | 0.014 | 288.8 | 284.8 | 284.6 | 272.8 |
| 35 | 457.20 | 0.00 | -1.00 | 50.821 | 15.424 | 0.017 | 288.7 | 284.9 | 284.3 | 272.7 |
| 36 | 457.20 | 0.00 | 2.00 | 50.847 | 14.990 | 0.014 | 288.8 | 284.8 | 284.0 | 272.7 |
| 37 | 457.20 | 0.00 | 5.00 | 50.878 | 13.987 | 0.016 | 288.7 | 284.9 | 283.9 | 273.3 |
| 38 | 457.20 | 0.00 | 8.00 | 50.879 | 12.946 | 0.015 | 288.9 | 284.9 | 283.9 | 274.0 |
| 39 | 457.20 | 0.00 | 11.00 | 50.914 | 11.666 | 0.013 | 289.0 | 284.9 | 283.9 | 274.9 |
| 40 | 457.20 | 0.00 | 14.00 | 50.915 | 10.445 | 0.015 | 289.0 | 284.9 | 283.8 | 275.7 |
| 41 | 457.20 | 0.00 | 17.00 | 50.915 | 9.136 | 0.019 | 289.0 | 284.9 | 283.7 | 276.6 |
| 42 | 457.20 | 0.00 | 20.00 | 50.891 | 7.992 | 0.019 | 289.1 | 284.9 | 283.8 | 277.5 |

File : TAB169T 9-DEC-88
21-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
Config III(a)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.341 kPa

Mean gauged plenum pressure : 51.315 kPa
RMS gauged plenum pressure : 0.245 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.520 | 0.171 | 0.017 | 287.8 | 284.7 | 286.2 | 286.1 |
| 3 | 457.20 | -105.00 | 0.00 | 51.374 | 0.215 | 0.014 | 287.9 | 284.7 | 286.4 | 286.2 |
| 4 | 457.20 | -100.00 | 0.00 | 51.312 | 0.342 | 0.013 | 287.9 | 284.6 | 285.5 | 285.2 |
| 5 | 457.20 | -95.00 | 0.00 | 51.485 | 0.641 | 0.014 | 287.6 | 284.6 | 285.5 | 285.0 |
| 6 | 457.20 | -90.00 | 0.00 | 51.414 | 0.904 | 0.013 | 287.7 | 284.7 | 285.6 | 284.9 |
| 7 | 457.20 | -85.00 | 0.00 | 51.234 | 1.477 | 0.013 | 287.9 | 284.7 | 285.8 | 284.6 |
| 8 | 457.20 | -80.00 | 0.00 | 51.077 | 2.038 | 0.013 | 288.0 | 284.7 | 285.8 | 284.1 |
| 9 | 457.20 | -75.00 | 0.00 | 51.438 | 2.570 | 0.012 | 288.2 | 284.7 | 285.4 | 283.3 |
| 10 | 457.20 | -70.00 | 0.00 | 51.205 | 3.581 | 0.013 | 288.1 | 284.8 | 285.5 | 282.6 |
| 11 | 457.20 | -65.00 | 0.00 | 51.253 | 4.159 | 0.013 | 288.2 | 284.8 | 285.4 | 282.0 |
| 12 | 457.20 | -60.00 | 0.00 | 51.359 | 5.340 | 0.013 | 288.3 | 284.8 | 285.1 | 280.8 |
| 13 | 457.20 | -55.00 | 0.00 | 51.511 | 6.731 | 0.013 | 288.5 | 284.8 | 285.2 | 279.8 |
| 14 | 457.20 | -50.00 | 0.00 | 51.634 | 7.880 | 0.013 | 288.5 | 284.8 | 284.9 | 278.7 |
| 15 | 457.20 | -45.00 | 0.00 | 51.628 | 9.650 | 0.013 | 288.4 | 284.8 | 284.9 | 277.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.526 | 11.223 | 0.013 | 288.5 | 284.8 | 284.8 | 276.1 |
| 17 | 457.20 | -35.00 | 0.00 | 51.391 | 12.508 | 0.013 | 288.4 | 284.8 | 284.6 | 275.0 |
| 18 | 457.20 | -30.00 | 0.00 | 51.198 | 13.972 | 0.012 | 288.5 | 284.8 | 284.5 | 273.9 |
| 19 | 457.20 | -25.00 | 0.00 | 51.055 | 14.845 | 0.013 | 288.7 | 284.8 | 284.4 | 273.2 |
| 20 | 457.20 | -20.00 | 0.00 | 50.950 | 15.449 | 0.012 | 289.1 | 284.8 | 284.4 | 272.8 |
| 21 | 457.20 | -15.00 | 0.00 | 50.976 | 15.405 | 0.012 | 289.2 | 284.8 | 284.2 | 272.6 |
| 22 | 457.20 | -10.00 | 0.00 | 50.998 | 15.264 | 0.012 | 289.3 | 284.8 | 283.8 | 272.3 |
| 23 | 457.20 | -5.00 | 0.00 | 51.123 | 15.257 | 0.012 | 289.4 | 284.8 | 283.9 | 272.4 |
| 24 | 457.20 | 0.00 | 0.00 | 51.191 | 15.289 | 0.012 | 289.1 | 284.8 | 283.5 | 272.0 |
| 25 | 457.20 | 5.00 | 0.00 | 51.152 | 15.556 | 0.012 | 288.6 | 284.8 | 283.7 | 272.0 |
| 26 | 457.20 | 10.00 | 0.00 | 51.057 | 15.923 | 0.012 | 288.5 | 284.8 | 284.3 | 272.3 |
| 27 | 457.20 | 15.00 | 0.00 | 51.181 | 16.512 | 0.012 | 288.6 | 284.8 | 284.3 | 271.9 |
| 28 | 457.20 | 20.00 | 0.00 | 51.130 | 16.447 | 0.012 | 288.6 | 284.8 | 284.7 | 272.4 |
| 29 | 457.20 | 25.00 | 0.00 | 51.021 | 15.702 | 0.012 | 288.7 | 284.8 | 284.7 | 272.9 |
| 30 | 457.20 | 30.00 | 0.00 | 50.921 | 14.254 | 0.012 | 288.7 | 284.8 | 285.0 | 274.2 |
| 31 | 457.20 | 35.00 | 0.00 | 51.337 | 12.280 | 0.012 | 288.5 | 284.8 | 284.5 | 275.1 |
| 32 | 457.20 | 40.00 | 0.00 | 51.402 | 10.322 | 0.012 | 288.6 | 284.8 | 284.3 | 276.3 |
| 33 | 457.20 | 45.00 | 0.00 | 51.547 | 7.983 | 0.012 | 288.4 | 284.8 | 284.6 | 278.3 |
| 34 | 457.20 | 50.00 | 0.00 | 51.712 | 6.214 | 0.013 | 288.3 | 284.8 | 284.5 | 279.6 |
| 35 | 457.20 | 55.00 | 0.00 | 51.391 | 5.089 | 0.012 | 288.5 | 284.8 | 284.8 | 280.7 |
| 36 | 457.20 | 60.00 | 0.00 | 51.338 | 3.638 | 0.013 | 288.7 | 284.8 | 284.9 | 282.0 |
| 37 | 457.20 | 65.00 | 0.00 | 51.182 | 2.866 | 0.012 | 288.6 | 284.8 | 285.0 | 282.7 |
| 38 | 457.20 | 70.00 | 0.00 | 51.008 | 2.177 | 0.012 | 288.7 | 284.8 | 285.9 | 284.1 |
| 39 | 457.20 | 75.00 | 0.00 | 51.509 | 1.205 | 0.012 | 288.6 | 284.8 | 286.0 | 285.0 |
| 40 | 457.20 | 80.00 | 0.00 | 51.462 | 1.258 | 0.012 | 288.6 | 284.8 | 286.3 | 285.3 |
| 41 | 457.20 | 85.00 | 0.00 | 51.545 | 0.911 | 0.012 | 288.6 | 284.8 | 285.9 | 285.1 |
| 42 | 457.20 | 90.00 | 0.00 | 51.688 | 0.416 | 0.012 | 288.5 | 284.7 | 285.8 | 285.5 |
| 43 | 457.20 | 95.00 | 0.00 | 51.929 | 0.284 | 0.013 | 288.2 | 284.7 | 286.7 | 286.5 |
| 44 | 457.20 | 100.00 | 0.00 | 51.431 | 0.302 | 0.012 | 288.4 | 284.7 | 286.3 | 286.0 |
| 45 | 457.20 | 105.00 | 0.00 | 51.487 | 0.115 | 0.012 | 288.3 | 284.7 | 285.9 | 285.8 |
| 46 | 457.20 | 110.00 | 0.00 | 51.419 | 0.074 | 0.012 | 288.3 | 284.7 | 287.0 | 286.9 |

File : TAB177T

10-DEC-88
22-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
Config III(a)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.307 kPa

Mean gauged plenum pressure : 51.371 kPa
RMS gauged plenum pressure : 0.227 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.373 | 0.111 | 0.012 | 285.7 | 284.0 | 284.9 | 284.8 |
| 3 | 457.20 | -105.00 | 0.00 | 51.250 | 0.257 | 0.012 | 285.5 | 284.1 | 284.6 | 284.4 |
| 4 | 457.20 | -100.00 | 0.00 | 51.059 | 0.503 | 0.012 | 285.5 | 284.1 | 284.5 | 284.1 |
| 5 | 457.20 | -95.00 | 0.00 | 51.416 | 0.848 | 0.012 | 285.4 | 284.1 | 284.4 | 283.7 |
| 6 | 457.20 | -90.00 | 0.00 | 51.340 | 0.996 | 0.012 | 285.3 | 284.1 | 284.2 | 283.4 |
| 7 | 457.20 | -85.00 | 0.00 | 51.372 | 1.507 | 0.012 | 285.3 | 284.1 | 284.1 | 282.9 |
| 8 | 457.20 | -80.00 | 0.00 | 51.376 | 2.369 | 0.012 | 285.3 | 284.1 | 284.0 | 282.1 |
| 9 | 457.20 | -75.00 | 0.00 | 51.300 | 2.837 | 0.012 | 285.3 | 284.1 | 283.9 | 281.6 |
| 10 | 457.20 | -70.00 | 0.00 | 51.247 | 3.653 | 0.012 | 285.2 | 284.1 | 283.7 | 280.8 |
| 11 | 457.20 | -65.00 | 0.00 | 51.217 | 4.134 | 0.012 | 285.2 | 284.1 | 283.5 | 280.2 |
| 12 | 457.20 | -60.00 | 0.00 | 51.213 | 5.099 | 0.012 | 285.2 | 284.1 | 283.3 | 279.2 |
| 13 | 457.20 | -55.00 | 0.00 | 51.086 | 6.519 | 0.012 | 285.2 | 284.1 | 283.2 | 278.0 |
| 14 | 457.20 | -50.00 | 0.00 | 51.372 | 7.663 | 0.012 | 285.1 | 284.1 | 283.2 | 277.2 |
| 15 | 457.20 | -45.00 | 0.00 | 51.314 | 9.534 | 0.012 | 285.1 | 284.1 | 283.1 | 275.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.334 | 11.204 | 0.012 | 285.2 | 284.1 | 283.2 | 274.6 |
| 17 | 457.20 | -35.00 | 0.00 | 51.350 | 13.003 | 0.012 | 285.1 | 284.1 | 283.0 | 273.1 |
| 18 | 457.20 | -30.00 | 0.00 | 51.327 | 14.645 | 0.012 | 285.1 | 284.1 | 283.1 | 272.1 |
| 19 | 457.20 | -25.00 | 0.00 | 51.331 | 15.566 | 0.012 | 285.1 | 284.1 | 283.2 | 271.5 |
| 20 | 457.20 | -20.00 | 0.00 | 51.342 | 16.172 | 0.012 | 285.1 | 284.1 | 283.2 | 271.1 |
| 21 | 457.20 | -15.00 | 0.00 | 51.373 | 16.179 | 0.012 | 285.2 | 284.1 | 283.0 | 270.9 |
| 22 | 457.20 | -10.00 | 0.00 | 51.363 | 16.124 | 0.012 | 285.2 | 284.2 | 282.9 | 270.9 |
| 23 | 457.20 | -5.00 | 0.00 | 51.410 | 15.761 | 0.012 | 285.2 | 284.1 | 282.7 | 270.9 |
| 24 | 457.20 | 0.00 | 0.00 | 51.424 | 15.545 | 0.012 | 285.2 | 284.2 | 282.6 | 271.0 |
| 25 | 457.20 | 5.00 | 0.00 | 51.465 | 15.696 | 0.012 | 285.3 | 284.2 | 282.5 | 270.8 |
| 26 | 457.20 | 10.00 | 0.00 | 51.487 | 15.912 | 0.013 | 285.3 | 284.2 | 282.8 | 270.9 |
| 27 | 457.20 | 15.00 | 0.00 | 51.573 | 16.006 | 0.013 | 285.3 | 284.2 | 283.1 | 271.1 |
| 28 | 457.20 | 20.00 | 0.00 | 51.294 | 15.531 | 0.013 | 285.3 | 284.2 | 283.0 | 271.4 |
| 29 | 457.20 | 25.00 | 0.00 | 51.331 | 15.028 | 0.013 | 285.3 | 284.2 | 283.2 | 271.9 |
| 30 | 457.20 | 30.00 | 0.00 | 51.364 | 13.538 | 0.012 | 285.3 | 284.2 | 283.2 | 272.9 |
| 31 | 457.20 | 35.00 | 0.00 | 51.253 | 12.091 | 0.012 | 285.3 | 284.2 | 283.4 | 274.1 |
| 32 | 457.20 | 40.00 | 0.00 | 51.341 | 10.067 | 0.012 | 285.3 | 284.1 | 283.4 | 275.6 |
| 33 | 457.20 | 45.00 | 0.00 | 51.152 | 8.470 | 0.012 | 285.3 | 284.1 | 283.3 | 276.7 |
| 34 | 457.20 | 50.00 | 0.00 | 51.875 | 7.188 | 0.012 | 285.3 | 284.2 | 283.5 | 277.8 |
| 35 | 457.20 | 55.00 | 0.00 | 51.683 | 5.864 | 0.012 | 285.3 | 284.3 | 283.6 | 278.9 |
| 36 | 457.20 | 60.00 | 0.00 | 51.087 | 4.609 | 0.012 | 285.2 | 284.2 | 283.5 | 279.8 |
| 37 | 457.20 | 65.00 | 0.00 | 51.279 | 3.670 | 0.012 | 285.2 | 284.1 | 283.7 | 280.7 |
| 38 | 457.20 | 70.00 | 0.00 | 51.328 | 2.811 | 0.012 | 285.2 | 284.1 | 283.9 | 281.6 |
| 39 | 457.20 | 75.00 | 0.00 | 51.485 | 2.072 | 0.012 | 285.1 | 284.2 | 284.0 | 282.3 |
| 40 | 457.20 | 80.00 | 0.00 | 51.545 | 1.588 | 0.012 | 285.1 | 284.2 | 284.0 | 282.7 |
| 41 | 457.20 | 85.00 | 0.00 | 51.074 | 1.167 | 0.012 | 285.1 | 284.2 | 284.3 | 283.3 |
| 42 | 457.20 | 90.00 | 0.00 | 51.274 | 0.778 | 0.012 | 285.1 | 284.1 | 284.3 | 283.7 |
| 43 | 457.20 | 95.00 | 0.00 | 51.510 | 0.444 | 0.013 | 285.1 | 284.1 | 284.4 | 284.0 |
| 44 | 457.20 | 100.00 | 0.00 | 51.449 | 0.249 | 0.012 | 285.2 | 284.2 | 284.6 | 284.4 |
| 45 | 457.20 | 105.00 | 0.00 | 51.394 | 0.099 | 0.012 | 285.1 | 284.2 | 284.6 | 284.5 |
| 46 | 457.20 | 110.00 | 0.00 | 51.324 | 0.044 | 0.012 | 285.1 | 284.1 | 284.6 | 284.6 |

File : TAB155T 16-NOV-88
16-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config. III(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.833 kPa

Mean gauged plenum pressure : 51.086 kPa
RMS gauged plenum pressure : 0.416 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.487 | 0.256 | 0.012 | 297.0 | 286.7 | 294.7 | 294.5 |
| 3 | 457.20 | -105.00 | 0.00 | 51.892 | 0.517 | 0.012 | 296.9 | 286.7 | 294.2 | 293.8 |
| 4 | 457.20 | -100.00 | 0.00 | 52.438 | 0.680 | 0.012 | 296.5 | 286.6 | 293.9 | 293.3 |
| 5 | 457.20 | -95.00 | 0.00 | 51.220 | 0.971 | 0.012 | 296.6 | 286.6 | 293.3 | 292.5 |
| 6 | 457.20 | -90.00 | 0.00 | 51.218 | 1.529 | 0.012 | 296.2 | 286.6 | 293.1 | 291.8 |
| 7 | 457.20 | -85.00 | 0.00 | 51.065 | 2.334 | 0.012 | 296.4 | 286.5 | 293.1 | 291.1 |
| 8 | 457.20 | -80.00 | 0.00 | 50.884 | 2.952 | 0.012 | 296.3 | 286.5 | 292.7 | 290.2 |
| 9 | 457.20 | -75.00 | 0.00 | 50.687 | 3.769 | 0.012 | 296.2 | 286.5 | 292.3 | 289.2 |
| 10 | 457.20 | -70.00 | 0.00 | 50.511 | 4.818 | 0.012 | 296.2 | 286.5 | 291.9 | 287.9 |
| 11 | 457.20 | -65.00 | 0.00 | 50.480 | 6.179 | 0.012 | 296.0 | 286.5 | 291.3 | 286.2 |
| 12 | 457.20 | -60.00 | 0.00 | 50.571 | 7.331 | 0.012 | 296.0 | 286.5 | 291.2 | 285.2 |
| 13 | 457.20 | -55.00 | 0.00 | 50.793 | 8.646 | 0.012 | 296.1 | 286.5 | 291.0 | 284.0 |
| 14 | 457.20 | -50.00 | 0.00 | 51.009 | 10.103 | 0.012 | 296.1 | 286.5 | 290.7 | 282.6 |
| 15 | 457.20 | -45.00 | 0.00 | 51.010 | 11.375 | 0.012 | 296.1 | 286.5 | 290.4 | 281.4 |
| 16 | 457.20 | -40.00 | 0.00 | 50.845 | 12.735 | 0.012 | 296.1 | 286.5 | 290.4 | 280.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 50.756 | 13.439 | 0.012 | 296.0 | 286.4 | 290.2 | 279.7 |
| 18 | 457.20 | -30.00 | 0.00 | 50.695 | 13.854 | 0.012 | 295.9 | 286.4 | 290.0 | 279.2 |
| 19 | 457.20 | -25.00 | 0.00 | 50.609 | 13.561 | 0.012 | 295.9 | 286.4 | 289.7 | 279.1 |
| 20 | 457.20 | -20.00 | 0.00 | 50.627 | 12.791 | 0.012 | 295.8 | 286.4 | 289.6 | 279.6 |
| 21 | 457.20 | -15.00 | 0.00 | 50.745 | 11.745 | 0.012 | 295.9 | 286.4 | 289.4 | 280.2 |
| 22 | 457.20 | -10.00 | 0.00 | 50.840 | 11.008 | 0.012 | 296.0 | 286.3 | 289.4 | 280.7 |
| 23 | 457.20 | -5.00 | 0.00 | 50.902 | 10.526 | 0.012 | 295.9 | 286.3 | 289.1 | 280.8 |
| 24 | 457.20 | 0.00 | 0.00 | 50.969 | 10.349 | 0.012 | 295.9 | 286.3 | 288.9 | 280.7 |
| 25 | 457.20 | 5.00 | 0.00 | 50.959 | 10.999 | 0.012 | 295.8 | 286.3 | 289.0 | 280.3 |
| 26 | 457.20 | 10.00 | 0.00 | 50.927 | 11.724 | 0.012 | 295.7 | 286.2 | 289.1 | 279.9 |
| 27 | 457.20 | 15.00 | 0.00 | 50.931 | 12.953 | 0.012 | 295.8 | 286.3 | 289.4 | 279.3 |
| 28 | 457.20 | 20.00 | 0.00 | 50.940 | 13.666 | 0.012 | 295.9 | 286.2 | 289.6 | 279.0 |
| 29 | 457.20 | 25.00 | 0.00 | 50.886 | 14.067 | 0.012 | 296.6 | 286.2 | 289.9 | 279.0 |
| 30 | 457.20 | 30.00 | 0.00 | 50.726 | 13.661 | 0.012 | 296.9 | 286.2 | 289.8 | 279.2 |
| 31 | 457.20 | 35.00 | 0.00 | 50.696 | 12.711 | 0.012 | 296.7 | 286.2 | 290.0 | 280.0 |
| 32 | 457.20 | 40.00 | 0.00 | 50.817 | 10.860 | 0.012 | 297.0 | 286.2 | 290.1 | 281.5 |
| 33 | 457.20 | 45.00 | 0.00 | 50.930 | 9.298 | 0.012 | 296.9 | 286.2 | 290.0 | 282.6 |
| 34 | 457.20 | 50.00 | 0.00 | 51.073 | 7.035 | 0.012 | 296.4 | 286.2 | 290.3 | 284.6 |
| 35 | 457.20 | 55.00 | 0.00 | 51.125 | 5.784 | 0.013 | 296.4 | 286.2 | 290.6 | 285.9 |
| 36 | 457.20 | 60.00 | 0.00 | 51.097 | 4.437 | 0.013 | 296.5 | 286.2 | 290.9 | 287.2 |
| 37 | 457.20 | 65.00 | 0.00 | 51.027 | 3.680 | 0.013 | 296.2 | 286.2 | 291.4 | 288.3 |
| 38 | 457.20 | 70.00 | 0.00 | 50.972 | 2.884 | 0.013 | 296.0 | 286.2 | 291.8 | 289.4 |
| 39 | 457.20 | 75.00 | 0.00 | 51.277 | 2.374 | 0.012 | 295.9 | 286.2 | 292.1 | 290.1 |
| 40 | 457.20 | 80.00 | 0.00 | 51.472 | 1.705 | 0.012 | 295.8 | 286.2 | 292.3 | 290.9 |
| 41 | 457.20 | 85.00 | 0.00 | 51.628 | 1.202 | 0.013 | 295.7 | 286.2 | 292.9 | 291.9 |
| 42 | 457.20 | 90.00 | 0.00 | 51.734 | 0.830 | 0.012 | 295.7 | 286.2 | 293.1 | 292.4 |
| 43 | 457.20 | 95.00 | 0.00 | 51.754 | 0.450 | 0.012 | 295.7 | 286.2 | 293.5 | 293.1 |
| 44 | 457.20 | 100.00 | 0.00 | 51.718 | 0.263 | 0.014 | 295.7 | 286.2 | 293.8 | 293.6 |
| 45 | 457.20 | 105.00 | 0.00 | 51.624 | 0.149 | 0.014 | 295.6 | 286.2 | 294.0 | 293.9 |
| 46 | 457.20 | 110.00 | 0.00 | 51.561 | 0.024 | 0.015 | 295.6 | 286.2 | 294.3 | 294.3 |

File : TAB156T 16-NOV-88
16-NOV-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config. III(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.799 kPa

Mean gauged plenum pressure : 52.019 kPa
RMS gauged plenum pressure : 0.330 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 51.478 | 0.013 | 0.016 | 296.3 | 286.2 | 294.3 | 294.3 |
| 3 | 457.20 | 0.00 | -97.00 | 51.492 | 0.012 | 0.014 | 296.2 | 286.2 | 294.5 | 294.5 |
| 4 | 457.20 | 0.00 | -94.00 | 51.610 | 0.012 | 0.013 | 296.4 | 286.2 | 294.2 | 294.2 |
| 5 | 457.20 | 0.00 | -91.00 | 51.732 | 0.013 | 0.014 | 296.4 | 286.2 | 294.0 | 294.0 |
| 6 | 457.20 | 0.00 | -88.00 | 51.823 | 0.024 | 0.020 | 296.0 | 286.2 | 293.8 | 293.8 |
| 7 | 457.20 | 0.00 | -85.00 | 51.865 | 0.048 | 0.016 | 295.6 | 286.1 | 293.5 | 293.5 |
| 8 | 457.20 | 0.00 | -82.00 | 51.848 | 0.160 | 0.014 | 295.5 | 286.1 | 293.2 | 293.1 |
| 9 | 457.20 | 0.00 | -79.00 | 52.013 | 0.215 | 0.014 | 295.4 | 286.1 | 292.9 | 292.7 |
| 10 | 457.20 | 0.00 | -76.00 | 51.896 | 0.352 | 0.013 | 295.4 | 286.1 | 292.7 | 292.4 |
| 11 | 457.20 | 0.00 | -73.00 | 51.824 | 0.595 | 0.013 | 295.4 | 286.1 | 292.4 | 291.9 |
| 12 | 457.20 | 0.00 | -70.00 | 51.754 | 0.739 | 0.014 | 295.4 | 286.1 | 292.4 | 291.8 |
| 13 | 457.20 | 0.00 | -67.00 | 51.730 | 0.990 | 0.014 | 295.3 | 286.0 | 292.1 | 291.3 |
| 14 | 457.20 | 0.00 | -64.00 | 51.751 | 1.430 | 0.014 | 295.3 | 286.1 | 292.0 | 290.8 |
| 15 | 457.20 | 0.00 | -61.00 | 51.750 | 1.752 | 0.014 | 295.4 | 286.0 | 291.6 | 290.1 |
| 16 | 457.20 | 0.00 | -58.00 | 51.749 | 2.102 | 0.013 | 295.3 | 286.1 | 291.5 | 289.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -55.00 | 51.713 | 2.582 | 0.014 | 295.3 | 286.0 | 291.2 | 289.0 |
| 18 | 457.20 | 0.00 | -52.00 | 51.680 | 3.106 | 0.013 | 295.3 | 286.0 | 291.1 | 288.5 |
| 19 | 457.20 | 0.00 | -49.00 | 51.671 | 3.695 | 0.014 | 295.3 | 286.0 | 290.9 | 287.8 |
| 20 | 457.20 | 0.00 | -46.00 | 51.658 | 4.359 | 0.013 | 295.3 | 286.0 | 290.7 | 287.1 |
| 21 | 457.20 | 0.00 | -43.00 | 51.836 | 4.939 | 0.014 | 295.3 | 286.0 | 290.6 | 286.5 |
| 22 | 457.20 | 0.00 | -40.00 | 52.217 | 5.734 | 0.013 | 295.3 | 286.0 | 290.3 | 285.6 |
| 23 | 457.20 | 0.00 | -37.00 | 52.229 | 6.464 | 0.013 | 295.3 | 286.0 | 290.2 | 284.9 |
| 24 | 457.20 | 0.00 | -34.00 | 52.225 | 7.143 | 0.015 | 295.3 | 286.0 | 290.0 | 284.2 |
| 25 | 457.20 | 0.00 | -31.00 | 52.166 | 7.927 | 0.013 | 295.6 | 286.0 | 290.0 | 283.6 |
| 26 | 457.20 | 0.00 | -28.00 | 52.139 | 8.833 | 0.013 | 296.2 | 286.0 | 289.9 | 282.8 |
| 27 | 457.20 | 0.00 | -25.00 | 52.093 | 9.441 | 0.013 | 296.3 | 286.0 | 289.8 | 282.3 |
| 28 | 457.20 | 0.00 | -22.00 | 52.170 | 10.154 | 0.014 | 296.0 | 286.0 | 289.5 | 281.4 |
| 29 | 457.20 | 0.00 | -19.00 | 52.207 | 10.794 | 0.015 | 296.3 | 286.0 | 289.2 | 280.7 |
| 30 | 457.20 | 0.00 | -16.00 | 52.136 | 11.244 | 0.019 | 296.4 | 286.0 | 289.2 | 280.3 |
| 31 | 457.20 | 0.00 | -13.00 | 52.181 | 11.613 | 0.014 | 296.4 | 286.1 | 289.0 | 279.9 |
| 32 | 457.20 | 0.00 | -10.00 | 52.263 | 11.629 | 0.012 | 296.1 | 286.0 | 288.8 | 279.7 |
| 33 | 457.20 | 0.00 | -7.00 | 52.270 | 11.766 | 0.013 | 296.0 | 286.0 | 288.7 | 279.5 |
| 34 | 457.20 | 0.00 | -4.00 | 52.290 | 11.434 | 0.014 | 295.6 | 286.0 | 288.4 | 279.4 |
| 35 | 457.20 | 0.00 | -1.00 | 52.350 | 10.896 | 0.013 | 295.3 | 286.0 | 288.4 | 279.8 |
| 36 | 457.20 | 0.00 | 2.00 | 52.416 | 10.461 | 0.013 | 295.1 | 286.0 | 288.3 | 280.0 |
| 37 | 457.20 | 0.00 | 5.00 | 52.498 | 9.722 | 0.013 | 295.0 | 286.1 | 288.4 | 280.7 |
| 38 | 457.20 | 0.00 | 8.00 | 52.535 | 8.945 | 0.013 | 295.0 | 286.0 | 288.3 | 281.2 |
| 39 | 457.20 | 0.00 | 11.00 | 52.583 | 8.185 | 0.013 | 294.9 | 286.0 | 288.5 | 281.9 |
| 40 | 457.20 | 0.00 | 14.00 | 52.679 | 7.272 | 0.012 | 294.9 | 286.0 | 288.6 | 282.7 |
| 41 | 457.20 | 0.00 | 17.00 | 52.497 | 6.273 | 0.013 | 294.9 | 286.0 | 288.8 | 283.7 |
| 42 | 457.20 | 0.00 | 20.00 | 52.359 | 5.479 | 0.012 | 294.8 | 286.0 | 288.8 | 284.3 |

File : TAB170T

9-DEC-88
21-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB
Config III(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.239 kPa

Mean gauged plenum pressure : 51.385 kPa
RMS gauged plenum pressure : 0.426 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 52.176 | 0.165 | 0.019 | 289.3 | 284.8 | 287.3 | 287.2 |
| 3 | 457.20 | -105.00 | 0.00 | 52.187 | 0.234 | 0.014 | 289.1 | 284.8 | 287.0 | 286.8 |
| 4 | 457.20 | -100.00 | 0.00 | 51.835 | 0.447 | 0.016 | 289.1 | 284.8 | 286.9 | 286.5 |
| 5 | 457.20 | -95.00 | 0.00 | 51.532 | 0.655 | 0.019 | 289.4 | 284.8 | 287.0 | 286.5 |
| 6 | 457.20 | -90.00 | 0.00 | 51.267 | 1.057 | 0.018 | 289.4 | 284.8 | 286.9 | 286.0 |
| 7 | 457.20 | -85.00 | 0.00 | 50.898 | 1.492 | 0.016 | 289.4 | 284.8 | 286.5 | 285.3 |
| 8 | 457.20 | -80.00 | 0.00 | 49.896 | 2.156 | 0.018 | 289.3 | 284.8 | 286.0 | 284.2 |
| 9 | 457.20 | -75.00 | 0.00 | 52.759 | 2.993 | 0.017 | 289.3 | 284.9 | 286.4 | 284.0 |
| 10 | 457.20 | -70.00 | 0.00 | 51.100 | 3.744 | 0.013 | 289.4 | 285.0 | 286.0 | 283.0 |
| 11 | 457.20 | -65.00 | 0.00 | 50.999 | 5.004 | 0.016 | 289.4 | 284.9 | 285.8 | 281.8 |
| 12 | 457.20 | -60.00 | 0.00 | 51.430 | 6.169 | 0.016 | 289.4 | 284.9 | 285.8 | 280.9 |
| 13 | 457.20 | -55.00 | 0.00 | 51.327 | 7.126 | 0.013 | 289.5 | 284.9 | 285.5 | 279.8 |
| 14 | 457.20 | -50.00 | 0.00 | 51.176 | 8.544 | 0.014 | 289.7 | 284.9 | 285.4 | 278.7 |
| 15 | 457.20 | -45.00 | 0.00 | 51.506 | 9.671 | 0.014 | 289.6 | 284.9 | 285.4 | 277.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.468 | 11.182 | 0.013 | 289.4 | 284.9 | 285.5 | 276.8 |
| 17 | 457.20 | -35.00 | 0.00 | 51.760 | 12.518 | 0.013 | 289.1 | 285.0 | 285.3 | 275.7 |
| 18 | 457.20 | -30.00 | 0.00 | 51.279 | 12.837 | 0.013 | 289.2 | 285.0 | 285.1 | 275.3 |
| 19 | 457.20 | -25.00 | 0.00 | 51.189 | 12.846 | 0.012 | 289.1 | 285.0 | 285.3 | 275.4 |
| 20 | 457.20 | -20.00 | 0.00 | 51.187 | 12.396 | 0.012 | 289.2 | 285.0 | 284.8 | 275.3 |
| 21 | 457.20 | -15.00 | 0.00 | 51.358 | 11.932 | 0.012 | 289.2 | 284.9 | 284.5 | 275.3 |
| 22 | 457.20 | -10.00 | 0.00 | 51.324 | 11.159 | 0.012 | 289.2 | 284.9 | 284.5 | 275.9 |
| 23 | 457.20 | -5.00 | 0.00 | 51.358 | 10.666 | 0.012 | 289.1 | 284.9 | 284.1 | 275.8 |
| 24 | 457.20 | 0.00 | 0.00 | 51.435 | 10.690 | 0.012 | 289.2 | 284.9 | 284.3 | 276.0 |
| 25 | 457.20 | 5.00 | 0.00 | 51.533 | 11.301 | 0.012 | 289.3 | 285.0 | 284.4 | 275.7 |
| 26 | 457.20 | 10.00 | 0.00 | 51.324 | 12.061 | 0.012 | 289.1 | 285.0 | 284.4 | 275.1 |
| 27 | 457.20 | 15.00 | 0.00 | 51.732 | 13.200 | 0.012 | 289.1 | 285.0 | 284.8 | 274.7 |
| 28 | 457.20 | 20.00 | 0.00 | 51.046 | 13.771 | 0.012 | 289.2 | 284.9 | 285.2 | 274.7 |
| 29 | 457.20 | 25.00 | 0.00 | 51.411 | 14.347 | 0.012 | 289.2 | 284.9 | 285.2 | 274.3 |
| 30 | 457.20 | 30.00 | 0.00 | 50.928 | 13.568 | 0.012 | 289.2 | 284.9 | 285.3 | 274.9 |
| 31 | 457.20 | 35.00 | 0.00 | 51.266 | 12.341 | 0.012 | 289.3 | 284.9 | 285.2 | 275.7 |
| 32 | 457.20 | 40.00 | 0.00 | 51.503 | 10.888 | 0.012 | 289.4 | 284.9 | 284.9 | 276.5 |
| 33 | 457.20 | 45.00 | 0.00 | 51.267 | 8.890 | 0.013 | 289.4 | 285.0 | 285.3 | 278.3 |
| 34 | 457.20 | 50.00 | 0.00 | 51.564 | 6.907 | 0.012 | 289.4 | 284.9 | 285.2 | 279.7 |
| 35 | 457.20 | 55.00 | 0.00 | 51.695 | 5.435 | 0.012 | 289.4 | 285.0 | 285.3 | 280.9 |
| 36 | 457.20 | 60.00 | 0.00 | 51.296 | 4.362 | 0.012 | 289.7 | 284.9 | 285.4 | 281.9 |
| 37 | 457.20 | 65.00 | 0.00 | 51.327 | 3.589 | 0.012 | 290.0 | 284.9 | 285.7 | 282.8 |
| 38 | 457.20 | 70.00 | 0.00 | 51.149 | 2.337 | 0.012 | 290.5 | 284.9 | 285.8 | 283.9 |
| 39 | 457.20 | 75.00 | 0.00 | 50.876 | 1.855 | 0.012 | 290.7 | 284.9 | 286.1 | 284.6 |
| 40 | 457.20 | 80.00 | 0.00 | 51.390 | 1.371 | 0.012 | 290.7 | 285.0 | 286.6 | 285.5 |
| 41 | 457.20 | 85.00 | 0.00 | 51.361 | 0.772 | 0.012 | 290.7 | 284.9 | 286.8 | 286.2 |
| 42 | 457.20 | 90.00 | 0.00 | 51.483 | 0.672 | 0.012 | 290.0 | 284.9 | 286.7 | 286.1 |
| 43 | 457.20 | 95.00 | 0.00 | 51.479 | 0.369 | 0.012 | 289.8 | 284.9 | 286.8 | 286.5 |
| 44 | 457.20 | 100.00 | 0.00 | 51.632 | 0.155 | 0.012 | 289.5 | 284.9 | 286.9 | 286.8 |
| 45 | 457.20 | 105.00 | 0.00 | 51.287 | 0.103 | 0.012 | 289.3 | 285.0 | 286.9 | 286.8 |
| 46 | 457.20 | 110.00 | 0.00 | 51.275 | 0.050 | 0.012 | 289.5 | 285.0 | 287.3 | 287.3 |

File : TAB181T

10-DEC-88
23-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
Config III(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.138 kPa

Mean gauged plenum pressure : 51.321 kPa
RMS gauged plenum pressure : 0.209 kPa

| Test pt. | C1 mm | C2 mm. | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.373 | 0.191 | 0.013 | 283.4 | 283.8 | 283.1 | 282.9 |
| 3 | 457.20 | -105.00 | 0.00 | 51.302 | 0.243 | 0.013 | 283.5 | 283.8 | 282.9 | 282.7 |
| 4 | 457.20 | -100.00 | 0.00 | 51.269 | 0.378 | 0.013 | 283.5 | 283.8 | 282.8 | 282.5 |
| 5 | 457.20 | -95.00 | 0.00 | 51.231 | 0.865 | 0.013 | 283.5 | 283.8 | 282.8 | 282.1 |
| 6 | 457.20 | -90.00 | 0.00 | 51.244 | 1.347 | 0.013 | 283.5 | 283.8 | 282.8 | 281.7 |
| 7 | 457.20 | -85.00 | 0.00 | 51.269 | 1.634 | 0.014 | 283.5 | 283.9 | 282.5 | 281.2 |
| 8 | 457.20 | -80.00 | 0.00 | 51.283 | 2.223 | 0.013 | 283.5 | 283.9 | 282.6 | 280.8 |
| 9 | 457.20 | -75.00 | 0.00 | 51.279 | 2.959 | 0.013 | 283.5 | 283.9 | 282.6 | 280.2 |
| 10 | 457.20 | -70.00 | 0.00 | 51.239 | 3.768 | 0.013 | 283.5 | 283.9 | 282.3 | 279.3 |
| 11 | 457.20 | -65.00 | 0.00 | 51.208 | 4.769 | 0.013 | 283.5 | 283.9 | 282.3 | 278.5 |
| 12 | 457.20 | -60.00 | 0.00 | 51.192 | 5.790 | 0.013 | 283.6 | 283.9 | 282.3 | 277.7 |
| 13 | 457.20 | -55.00 | 0.00 | 51.028 | 6.968 | 0.014 | 283.6 | 283.9 | 282.3 | 276.8 |
| 14 | 457.20 | -50.00 | 0.00 | 50.960 | 8.187 | 0.013 | 283.7 | 283.9 | 282.3 | 275.9 |
| 15 | 457.20 | -45.00 | 0.00 | 50.996 | 10.009 | 0.013 | 283.6 | 283.9 | 282.3 | 274.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.463 | 11.764 | 0.018 | 283.6 | 283.9 | 282.2 | 273.2 |
| 17 | 457.20 | -35.00 | 0.00 | 51.424 | 13.249 | 0.014 | 283.6 | 283.9 | 282.5 | 272.4 |
| 18 | 457.20 | -30.00 | 0.00 | 51.408 | 14.138 | 0.013 | 283.7 | 283.9 | 282.4 | 271.7 |
| 19 | 457.20 | -25.00 | 0.00 | 51.435 | 14.778 | 0.014 | 283.7 | 283.9 | 282.5 | 271.4 |
| 20 | 457.20 | -20.00 | 0.00 | 51.479 | 14.767 | 0.017 | 283.7 | 283.9 | 282.3 | 271.2 |
| 21 | 457.20 | -15.00 | 0.00 | 51.493 | 14.367 | 0.018 | 283.6 | 283.9 | 281.9 | 271.1 |
| 22 | 457.20 | -10.00 | 0.00 | 51.522 | 13.645 | 0.016 | 283.7 | 283.9 | 281.8 | 271.5 |
| 23 | 457.20 | -5.00 | 0.00 | 51.575 | 13.133 | 0.014 | 283.7 | 283.9 | 281.7 | 271.8 |
| 24 | 457.20 | 0.00 | 0.00 | 51.632 | 13.013 | 0.014 | 283.8 | 283.9 | 281.7 | 271.8 |
| 25 | 457.20 | 5.00 | 0.00 | 51.656 | 12.978 | 0.013 | 283.8 | 283.9 | 281.6 | 271.8 |
| 26 | 457.20 | 10.00 | 0.00 | 51.632 | 13.484 | 0.014 | 283.8 | 284.0 | 281.9 | 271.7 |
| 27 | 457.20 | 15.00 | 0.00 | 51.627 | 13.785 | 0.015 | 283.9 | 283.9 | 281.9 | 271.5 |
| 28 | 457.20 | 20.00 | 0.00 | 51.093 | 14.291 | 0.015 | 283.8 | 283.9 | 282.3 | 271.5 |
| 29 | 457.20 | 25.00 | 0.00 | 51.089 | 14.126 | 0.018 | 283.9 | 283.9 | 282.5 | 271.8 |
| 30 | 457.20 | 30.00 | 0.00 | 51.012 | 13.234 | 0.017 | 283.9 | 283.9 | 282.6 | 272.5 |
| 31 | 457.20 | 35.00 | 0.00 | 51.013 | 11.901 | 0.018 | 284.0 | 283.9 | 282.5 | 273.4 |
| 32 | 457.20 | 40.00 | 0.00 | 51.021 | 10.445 | 0.018 | 284.0 | 283.9 | 282.4 | 274.3 |
| 33 | 457.20 | 45.00 | 0.00 | 50.994 | 8.721 | 0.016 | 283.9 | 283.9 | 282.6 | 275.8 |
| 34 | 457.20 | 50.00 | 0.00 | 51.343 | 7.413 | 0.017 | 283.9 | 283.9 | 282.6 | 276.8 |
| 35 | 457.20 | 55.00 | 0.00 | 51.334 | 5.916 | 0.018 | 284.0 | 283.9 | 282.6 | 277.9 |
| 36 | 457.20 | 60.00 | 0.00 | 51.370 | 4.757 | 0.017 | 283.9 | 283.9 | 282.5 | 278.7 |
| 37 | 457.20 | 65.00 | 0.00 | 51.393 | 3.759 | 0.019 | 283.9 | 283.9 | 282.6 | 279.6 |
| 38 | 457.20 | 70.00 | 0.00 | 51.383 | 3.009 | 0.018 | 283.9 | 283.9 | 282.8 | 280.4 |
| 39 | 457.20 | 75.00 | 0.00 | 51.385 | 2.158 | 0.018 | 283.9 | 283.9 | 282.9 | 281.1 |
| 40 | 457.20 | 80.00 | 0.00 | 51.330 | 1.746 | 0.019 | 283.9 | 283.9 | 283.2 | 281.8 |
| 41 | 457.20 | 85.00 | 0.00 | 51.365 | 1.117 | 0.017 | 283.9 | 283.9 | 283.3 | 282.4 |
| 42 | 457.20 | 90.00 | 0.00 | 51.385 | 0.776 | 0.021 | 284.0 | 283.9 | 283.4 | 282.8 |
| 43 | 457.20 | 95.00 | 0.00 | 51.387 | 0.515 | 0.020 | 284.0 | 283.9 | 283.4 | 283.0 |
| 44 | 457.20 | 100.00 | 0.00 | 51.382 | 0.280 | 0.022 | 284.0 | 283.9 | 283.4 | 283.2 |
| 45 | 457.20 | 105.00 | 0.00 | 51.379 | 0.184 | 0.021 | 284.0 | 284.0 | 283.6 | 283.4 |
| 46 | 457.20 | 110.00 | 0.00 | 51.390 | 0.095 | 0.020 | 284.1 | 284.0 | 283.7 | 283.6 |

File : TAB151T

15-NOV-88
15-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config II(a)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.205 kPa

Mean gauged plenum pressure : 51.219 kPa
RMS gauged plenum pressure : 0.115 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.327 | 0.027 | 0.023 | 293.4 | 285.7 | 292.6 | 292.6 |
| 3 | 457.20 | -105.00 | 0.00 | 51.405 | 0.016 | 0.023 | 293.3 | 285.8 | 293.0 | 293.0 |
| 4 | 457.20 | -100.00 | 0.00 | 51.419 | 0.013 | 0.018 | 293.7 | 285.8 | 293.8 | 293.8 |
| 5 | 457.20 | -95.00 | 0.00 | 51.431 | 0.014 | 0.022 | 294.1 | 285.8 | 293.4 | 293.4 |
| 6 | 457.20 | -90.00 | 0.00 | 51.434 | 0.013 | 0.020 | 294.5 | 285.8 | 293.5 | 293.5 |
| 7 | 457.20 | -85.00 | 0.00 | 51.451 | 0.012 | 0.020 | 294.2 | 285.8 | 293.4 | 293.4 |
| 8 | 457.20 | -80.00 | 0.00 | 51.438 | 0.011 | 0.020 | 294.3 | 285.8 | 293.3 | 293.3 |
| 9 | 457.20 | -75.00 | 0.00 | 51.390 | 0.010 | 0.023 | 294.1 | 285.8 | 292.8 | 292.8 |
| 10 | 457.20 | -70.00 | 0.00 | 51.362 | 0.009 | 0.019 | 294.3 | 285.8 | 293.0 | 293.0 |
| 11 | 457.20 | -65.00 | 0.00 | 51.318 | 0.010 | 0.016 | 294.1 | 285.8 | 292.0 | 292.0 |
| 12 | 457.20 | -60.00 | 0.00 | 51.285 | 0.087 | 0.019 | 293.8 | 285.8 | 291.3 | 291.2 |
| 13 | 457.20 | -55.00 | 0.00 | 51.305 | 0.176 | 0.019 | 293.6 | 285.8 | 290.5 | 290.4 |
| 14 | 457.20 | -50.00 | 0.00 | 51.281 | 0.592 | 0.020 | 293.6 | 285.8 | 289.7 | 289.2 |
| 15 | 457.20 | -45.00 | 0.00 | 51.292 | 1.126 | 0.019 | 293.5 | 285.8 | 289.2 | 288.3 |
| 16 | 457.20 | -40.00 | 0.00 | 51.300 | 1.955 | 0.016 | 293.6 | 285.8 | 288.4 | 286.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 51.270 | 3.155 | 0.017 | 293.5 | 285.9 | 288.0 | 285.4 |
| 18 | 457.20 | -30.00 | 0.00 | 51.238 | 4.871 | 0.016 | 293.5 | 285.9 | 287.5 | 283.5 |
| 19 | 457.20 | -25.00 | 0.00 | 51.212 | 6.890 | 0.014 | 293.6 | 285.9 | 287.2 | 281.7 |
| 20 | 457.20 | -20.00 | 0.00 | 51.193 | 9.599 | 0.016 | 293.7 | 285.9 | 287.2 | 279.6 |
| 21 | 457.20 | -15.00 | 0.00 | 51.196 | 12.762 | 0.016 | 293.7 | 285.9 | 287.4 | 277.5 |
| 22 | 457.20 | -10.00 | 0.00 | 51.171 | 15.555 | 0.019 | 293.5 | 285.9 | 287.4 | 275.6 |
| 23 | 457.20 | -5.00 | 0.00 | 51.155 | 17.263 | 0.014 | 293.5 | 285.9 | 287.6 | 274.6 |
| 24 | 457.20 | 0.00 | 0.00 | 51.088 | 17.329 | 0.014 | 293.5 | 285.9 | 287.6 | 274.5 |
| 25 | 457.20 | 5.00 | 0.00 | 51.082 | 14.724 | 0.015 | 293.5 | 285.9 | 287.4 | 276.1 |
| 26 | 457.20 | 10.00 | 0.00 | 51.096 | 12.511 | 0.017 | 293.5 | 285.9 | 287.1 | 277.4 |
| 27 | 457.20 | 15.00 | 0.00 | 51.123 | 9.106 | 0.017 | 293.4 | 285.9 | 287.0 | 279.8 |
| 28 | 457.20 | 20.00 | 0.00 | 51.134 | 6.658 | 0.015 | 293.3 | 285.8 | 287.0 | 281.7 |
| 29 | 457.20 | 25.00 | 0.00 | 51.141 | 4.337 | 0.016 | 293.3 | 285.9 | 287.3 | 283.8 |
| 30 | 457.20 | 30.00 | 0.00 | 51.140 | 2.956 | 0.015 | 293.4 | 285.8 | 288.1 | 285.7 |
| 31 | 457.20 | 35.00 | 0.00 | 51.166 | 1.777 | 0.015 | 293.5 | 285.8 | 288.6 | 287.1 |
| 32 | 457.20 | 40.00 | 0.00 | 51.115 | 0.895 | 0.018 | 293.4 | 285.8 | 289.4 | 288.6 |
| 33 | 457.20 | 45.00 | 0.00 | 51.116 | 0.428 | 0.018 | 293.6 | 285.8 | 290.0 | 289.6 |
| 34 | 457.20 | 50.00 | 0.00 | 51.124 | 0.134 | 0.015 | 294.1 | 285.8 | 290.9 | 290.8 |
| 35 | 457.20 | 55.00 | 0.00 | 51.174 | 0.029 | 0.015 | 294.2 | 285.8 | 291.3 | 291.3 |
| 36 | 457.20 | 60.00 | 0.00 | 51.199 | 0.011 | 0.014 | 294.6 | 285.7 | 292.1 | 292.1 |
| 37 | 457.20 | 65.00 | 0.00 | 51.194 | 0.010 | 0.015 | 294.7 | 285.7 | 292.3 | 292.3 |
| 38 | 457.20 | 70.00 | 0.00 | 51.195 | 0.010 | 0.015 | 294.3 | 285.7 | 292.7 | 292.7 |
| 39 | 457.20 | 75.00 | 0.00 | 51.184 | 0.011 | 0.015 | 294.2 | 285.7 | 292.8 | 292.8 |
| 40 | 457.20 | 80.00 | 0.00 | 51.182 | 0.012 | 0.015 | 294.1 | 285.7 | 293.2 | 293.2 |
| 41 | 457.20 | 85.00 | 0.00 | 51.146 | 0.012 | 0.013 | 294.1 | 285.8 | 293.2 | 293.2 |
| 42 | 457.20 | 90.00 | 0.00 | 51.101 | 0.013 | 0.013 | 293.8 | 285.7 | 293.3 | 293.3 |
| 43 | 457.20 | 95.00 | 0.00 | 51.102 | 0.012 | 0.015 | 293.6 | 285.8 | 293.3 | 293.3 |
| 44 | 457.20 | 100.00 | 0.00 | 51.120 | 0.013 | 0.016 | 293.6 | 285.7 | 293.3 | 293.3 |
| 45 | 457.20 | 105.00 | 0.00 | 51.100 | 0.013 | 0.013 | 293.6 | 285.8 | 293.2 | 293.2 |
| 46 | 457.20 | 110.00 | 0.00 | 51.073 | 0.013 | 0.013 | 293.6 | 285.8 | 293.2 | 293.2 |

File : TAB152T 16-NOV-88
*16-NOV-88*

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config. II(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.171 kPa

Mean gauged plenum pressure : 51.149 kPa
RMS gauged plenum pressure : 0.084 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 51.185 | 0.621 | 0.036 | 290.2 | 285.0 | 287.9 | 287.4 |
| 3 | 457.20 | 0.00 | -97.00 | 51.181 | 0.822 | 0.046 | 289.9 | 285.1 | 287.5 | 286.8 |
| 4 | 457.20 | 0.00 | -94.00 | 51.199 | 1.125 | 0.051 | 289.4 | 285.1 | 287.6 | 286.7 |
| 5 | 457.20 | 0.00 | -91.00 | 51.295 | 1.357 | 0.049 | 289.3 | 285.2 | 287.3 | 286.2 |
| 6 | 457.20 | 0.00 | -88.00 | 51.295 | 1.772 | 0.050 | 289.1 | 285.1 | 287.4 | 285.9 |
| 7 | 457.20 | 0.00 | -85.00 | 51.289 | 2.073 | 0.051 | 289.1 | 285.1 | 287.3 | 285.6 |
| 8 | 457.20 | 0.00 | -82.00 | 51.251 | 2.630 | 0.049 | 289.0 | 285.2 | 287.2 | 285.0 |
| 9 | 457.20 | 0.00 | -79.00 | 51.239 | 3.193 | 0.047 | 289.1 | 285.2 | 287.5 | 284.9 |
| 10 | 457.20 | 0.00 | -76.00 | 51.218 | 3.831 | 0.047 | 289.0 | 285.2 | 287.2 | 284.1 |
| 11 | 457.20 | 0.00 | -73.00 | 51.228 | 4.403 | 0.050 | 289.1 | 285.2 | 287.1 | 283.5 |
| 12 | 457.20 | 0.00 | -70.00 | 51.206 | 5.052 | 0.052 | 289.1 | 285.2 | 287.1 | 283.0 |
| 13 | 457.20 | 0.00 | -67.00 | 51.159 | 5.665 | 0.054 | 289.0 | 285.2 | 287.2 | 282.6 |
| 14 | 457.20 | 0.00 | -64.00 | 51.171 | 6.338 | 0.057 | 289.1 | 285.2 | 287.1 | 282.0 |
| 15 | 457.20 | 0.00 | -61.00 | 51.139 | 6.971 | 0.054 | 289.1 | 285.3 | 287.1 | 281.5 |
| 16 | 457.20 | 0.00 | -58.00 | 51.110 | 7.646 | 0.053 | 289.0 | 285.2 | 286.9 | 280.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -55.00 | 51.066 | 8.269 | 0.055 | 289.0 | 285.3 | 286.8 | 280.2 |
| 18 | 457.20 | 0.00 | -52.00 | 51.081 | 8.640 | 0.054 | 289.1 | 285.2 | 286.8 | 280.0 |
| 19 | 457.20 | 0.00 | -49.00 | 51.056 | 9.159 | 0.053 | 289.2 | 285.3 | 286.6 | 279.4 |
| 20 | 457.20 | 0.00 | -46.00 | 51.044 | 10.001 | 0.057 | 289.2 | 285.3 | 286.5 | 278.7 |
| 21 | 457.20 | 0.00 | -43.00 | 51.066 | 10.132 | 0.053 | 289.2 | 285.3 | 286.4 | 278.5 |
| 22 | 457.20 | 0.00 | -40.00 | 51.028 | 10.757 | 0.052 | 289.2 | 285.3 | 286.3 | 277.9 |
| 23 | 457.20 | 0.00 | -37.00 | 51.023 | 11.608 | 0.055 | 289.3 | 285.3 | 286.2 | 277.2 |
| 24 | 457.20 | 0.00 | -34.00 | 51.026 | 11.922 | 0.055 | 289.4 | 285.4 | 286.1 | 276.9 |
| 25 | 457.20 | 0.00 | -31.00 | 51.030 | 12.011 | 0.056 | 289.4 | 285.3 | 286.1 | 276.8 |
| 26 | 457.20 | 0.00 | -28.00 | 51.023 | 12.639 | 0.054 | 289.4 | 285.4 | 285.9 | 276.2 |
| 27 | 457.20 | 0.00 | -25.00 | 51.025 | 13.404 | 0.052 | 289.6 | 285.4 | 285.9 | 275.6 |
| 28 | 457.20 | 0.00 | -22.00 | 51.066 | 14.067 | 0.054 | 289.6 | 285.4 | 285.8 | 275.1 |
| 29 | 457.20 | 0.00 | -19.00 | 51.065 | 14.231 | 0.050 | 289.7 | 285.4 | 285.9 | 275.0 |
| 30 | 457.20 | 0.00 | -16.00 | 51.086 | 15.555 | 0.049 | 289.9 | 285.4 | 285.9 | 274.1 |
| 31 | 457.20 | 0.00 | -13.00 | 51.119 | 16.301 | 0.046 | 290.0 | 285.5 | 286.0 | 273.7 |
| 32 | 457.20 | 0.00 | -10.00 | 51.151 | 16.257 | 0.047 | 290.1 | 285.5 | 286.0 | 273.7 |
| 33 | 457.20 | 0.00 | -7.00 | 51.178 | 16.674 | 0.043 | 290.2 | 285.5 | 285.7 | 273.2 |
| 34 | 457.20 | 0.00 | -4.00 | 51.156 | 16.577 | 0.042 | 290.1 | 285.5 | 286.0 | 273.5 |
| 35 | 457.20 | 0.00 | -1.00 | 51.131 | 17.077 | 0.036 | 290.5 | 285.5 | 286.0 | 273.2 |
| 36 | 457.20 | 0.00 | 2.00 | 51.129 | 16.906 | 0.034 | 290.6 | 285.5 | 285.9 | 273.2 |
| 37 | 457.20 | 0.00 | 5.00 | 51.150 | 16.964 | 0.032 | 290.4 | 285.6 | 286.0 | 273.2 |
| 38 | 457.20 | 0.00 | 8.00 | 51.191 | 16.612 | 0.030 | 290.7 | 285.6 | 286.2 | 273.7 |
| 39 | 457.20 | 0.00 | 11.00 | 51.197 | 16.167 | 0.027 | 291.1 | 285.5 | 286.1 | 273.9 |
| 40 | 457.20 | 0.00 | 14.00 | 51.217 | 15.905 | 0.022 | 291.6 | 285.6 | 286.2 | 274.2 |
| 41 | 457.20 | 0.00 | 17.00 | 51.233 | 15.221 | 0.019 | 291.4 | 285.6 | 286.1 | 274.5 |
| 42 | 457.20 | 0.00 | 20.00 | 51.260 | 14.595 | 0.016 | 291.2 | 285.6 | 286.2 | 275.1 |

File : TAB171T 9-DEC-88
21-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
Config II(a)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.205 kPa

Mean gauged plenum pressure : 51.348 kPa
RMS gauged plenum pressure : 0.170 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.249 | 0.048 | 0.014 | 289.4 | 285.0 | 288.4 | 288.4 |
| 3 | 457.20 | -105.00 | 0.00 | 51.217 | 0.018 | 0.013 | 289.4 | 285.0 | 288.6 | 288.6 |
| 4 | 457.20 | -100.00 | 0.00 | 51.264 | 0.014 | 0.014 | 289.3 | 285.0 | 288.3 | 288.3 |
| 5 | 457.20 | -95.00 | 0.00 | 51.275 | 0.013 | 0.012 | 289.4 | 285.0 | 288.9 | 288.9 |
| 6 | 457.20 | -90.00 | 0.00 | 51.354 | 0.012 | 0.013 | 289.6 | 285.0 | 288.6 | 288.6 |
| 7 | 457.20 | -85.00 | 0.00 | 51.431 | 0.011 | 0.012 | 289.6 | 285.0 | 288.5 | 288.5 |
| 8 | 457.20 | -80.00 | 0.00 | 51.479 | 0.011 | 0.013 | 289.4 | 285.0 | 288.3 | 288.3 |
| 9 | 457.20 | -75.00 | 0.00 | 51.241 | 0.009 | 0.012 | 289.9 | 285.0 | 288.6 | 288.6 |
| 10 | 457.20 | -70.00 | 0.00 | 51.359 | 0.009 | 0.012 | 290.1 | 285.0 | 287.8 | 287.8 |
| 11 | 457.20 | -65.00 | 0.00 | 51.407 | 0.010 | 0.012 | 290.1 | 285.0 | 287.3 | 287.3 |
| 12 | 457.20 | -60.00 | 0.00 | 51.391 | 0.017 | 0.012 | 290.4 | 285.0 | 287.0 | 287.0 |
| 13 | 457.20 | -55.00 | 0.00 | 51.392 | 0.184 | 0.012 | 290.2 | 285.0 | 286.2 | 286.0 |
| 14 | 457.20 | -50.00 | 0.00 | 51.312 | 0.472 | 0.012 | 290.1 | 285.0 | 286.2 | 285.8 |
| 15 | 457.20 | -45.00 | 0.00 | 51.211 | 0.927 | 0.012 | 289.6 | 285.0 | 285.5 | 284.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.403 | 1.628 | 0.012 | 289.5 | 285.0 | 284.9 | 283.6 |
| 17 | 457.20 | -35.00 | 0.00 | 51.293 | 2.873 | 0.012 | 289.4 | 285.0 | 284.3 | 282.0 |
| 18 | 457.20 | -30.00 | 0.00 | 51.338 | 4.307 | 0.012 | 289.3 | 285.0 | 284.0 | 280.5 |
| 19 | 457.20 | -25.00 | 0.00 | 51.398 | 6.577 | 0.012 | 289.2 | 285.0 | 283.9 | 278.7 |
| 20 | 457.20 | -20.00 | 0.00 | 51.519 | 9.114 | 0.011 | 289.2 | 285.0 | 283.8 | 276.7 |
| 21 | 457.20 | -15.00 | 0.00 | 51.562 | 12.151 | 0.012 | 289.4 | 285.0 | 284.2 | 274.9 |
| 22 | 457.20 | -10.00 | 0.00 | 51.635 | 15.025 | 0.012 | 289.3 | 285.0 | 284.1 | 272.8 |
| 23 | 457.20 | -5.00 | 0.00 | 51.589 | 17.037 | 0.012 | 289.1 | 284.9 | 284.6 | 271.9 |
| 24 | 457.20 | 0.00 | 0.00 | 51.169 | 17.663 | 0.011 | 289.2 | 284.9 | 284.6 | 271.4 |
| 25 | 457.20 | 5.00 | 0.00 | 51.204 | 16.179 | 0.011 | 289.4 | 284.9 | 284.4 | 272.3 |
| 26 | 457.20 | 10.00 | 0.00 | 51.090 | 13.513 | 0.011 | 289.2 | 284.9 | 284.3 | 274.0 |
| 27 | 457.20 | 15.00 | 0.00 | 51.349 | 10.773 | 0.012 | 289.2 | 284.9 | 283.7 | 275.4 |
| 28 | 457.20 | 20.00 | 0.00 | 51.436 | 7.839 | 0.011 | 289.1 | 284.8 | 283.6 | 277.4 |
| 29 | 457.20 | 25.00 | 0.00 | 51.349 | 5.690 | 0.012 | 289.1 | 284.9 | 283.7 | 279.2 |
| 30 | 457.20 | 30.00 | 0.00 | 51.342 | 3.758 | 0.011 | 289.1 | 284.8 | 283.8 | 280.8 |
| 31 | 457.20 | 35.00 | 0.00 | 51.440 | 2.406 | 0.011 | 289.0 | 284.9 | 284.1 | 282.1 |
| 32 | 457.20 | 40.00 | 0.00 | 51.446 | 1.380 | 0.012 | 289.0 | 284.9 | 285.0 | 283.9 |
| 33 | 457.20 | 45.00 | 0.00 | 51.322 | 0.744 | 0.012 | 289.1 | 284.8 | 285.0 | 284.4 |
| 34 | 457.20 | 50.00 | 0.00 | 51.388 | 0.304 | 0.012 | 289.0 | 284.8 | 285.5 | 285.2 |
| 35 | 457.20 | 55.00 | 0.00 | 51.386 | 0.087 | 0.012 | 289.0 | 284.8 | 286.3 | 286.2 |
| 36 | 457.20 | 60.00 | 0.00 | 51.331 | 0.014 | 0.012 | 288.8 | 284.8 | 286.8 | 286.8 |
| 37 | 457.20 | 65.00 | 0.00 | 51.186 | 0.010 | 0.012 | 289.0 | 284.8 | 286.9 | 286.9 |
| 38 | 457.20 | 70.00 | 0.00 | 51.337 | 0.008 | 0.012 | 289.0 | 284.8 | 287.7 | 287.7 |
| 39 | 457.20 | 75.00 | 0.00 | 51.571 | 0.009 | 0.012 | 288.9 | 284.8 | 287.6 | 287.6 |
| 40 | 457.20 | 80.00 | 0.00 | 51.343 | 0.009 | 0.012 | 289.0 | 284.8 | 287.5 | 287.5 |
| 41 | 457.20 | 85.00 | 0.00 | 51.422 | 0.010 | 0.012 | 289.0 | 284.8 | 287.8 | 287.8 |
| 42 | 457.20 | 90.00 | 0.00 | 51.567 | 0.010 | 0.012 | 288.9 | 284.8 | 287.8 | 287.8 |
| 43 | 457.20 | 95.00 | 0.00 | 51.071 | 0.011 | 0.012 | 288.9 | 284.7 | 287.6 | 287.6 |
| 44 | 457.20 | 100.00 | 0.00 | 51.305 | 0.011 | 0.012 | 288.7 | 284.7 | 288.0 | 288.0 |
| 45 | 457.20 | 105.00 | 0.00 | 51.357 | 0.011 | 0.012 | 288.7 | 284.7 | 288.1 | 288.1 |
| 46 | 457.20 | 110.00 | 0.00 | 51.274 | 0.012 | 0.012 | 288.6 | 284.7 | 287.8 | 287.8 |

File : TAB178T

10-DEC-88
23-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
Config II(a)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.138 kPa

Mean gauged plenum pressure : 51.513 kPa
RMS gauged plenum pressure : 0.086 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.590 | 0.107 | 0.037 | 282.5 | 282.4 | 282.6 | 282.5 |
| 3 | 457.20 | -105.00 | 0.00 | 51.608 | 0.085 | 0.033 | 282.4 | 282.6 | 282.5 | 282.4 |
| 4 | 457.20 | -100.00 | 0.00 | 51.613 | 0.064 | 0.029 | 282.4 | 282.8 | 282.5 | 282.4 |
| 5 | 457.20 | -95.00 | 0.00 | 51.478 | 0.057 | 0.028 | 282.3 | 282.9 | 282.4 | 282.4 |
| 6 | 457.20 | -90.00 | 0.00 | 51.474 | 0.054 | 0.028 | 282.4 | 283.1 | 282.4 | 282.4 |
| 7 | 457.20 | -85.00 | 0.00 | 51.524 | 0.037 | 0.030 | 282.4 | 283.2 | 282.4 | 282.4 |
| 8 | 457.20 | -80.00 | 0.00 | 51.530 | 0.025 | 0.033 | 282.5 | 283.3 | 282.3 | 282.3 |
| 9 | 457.20 | -75.00 | 0.00 | 51.530 | 0.014 | 0.042 | 282.4 | 283.4 | 282.0 | 282.0 |
| 10 | 457.20 | -70.00 | 0.00 | 51.559 | 0.014 | 0.039 | 282.3 | 283.4 | 281.7 | 281.7 |
| 11 | 457.20 | -65.00 | 0.00 | 51.524 | 0.057 | 0.037 | 282.3 | 283.5 | 281.4 | 281.4 |
| 12 | 457.20 | -60.00 | 0.00 | 51.525 | 0.143 | 0.043 | 282.3 | 283.5 | 281.1 | 281.0 |
| 13 | 457.20 | -55.00 | 0.00 | 51.521 | 0.301 | 0.042 | 282.3 | 283.6 | 280.9 | 280.7 |
| 14 | 457.20 | -50.00 | 0.00 | 51.519 | 0.796 | 0.040 | 282.3 | 283.6 | 280.5 | 279.9 |
| 15 | 457.20 | -45.00 | 0.00 | 51.576 | 1.228 | 0.044 | 282.3 | 283.6 | 280.2 | 279.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.589 | 2.205 | 0.045 | 282.3 | 283.7 | 280.0 | 278.2 |
| 17 | 457.20 | -35.00 | 0.00 | 51.633 | 3.559 | 0.046 | 282.3 | 283.7 | 279.8 | 277.0 |
| 18 | 457.20 | -30.00 | 0.00 | 51.652 | 5.093 | 0.042 | 282.3 | 283.7 | 279.8 | 275.8 |
| 19 | 457.20 | -25.00 | 0.00 | 51.593 | 7.581 | 0.039 | 282.3 | 283.7 | 279.9 | 274.0 |
| 20 | 457.20 | -20.00 | 0.00 | 51.648 | 10.295 | 0.043 | 282.2 | 283.7 | 280.1 | 272.2 |
| 21 | 457.20 | -15.00 | 0.00 | 51.648 | 13.545 | 0.043 | 282.2 | 283.7 | 280.6 | 270.4 |
| 22 | 457.20 | -10.00 | 0.00 | 51.448 | 16.298 | 0.040 | 282.2 | 283.8 | 281.1 | 269.0 |
| 23 | 457.20 | -5.00 | 0.00 | 51.475 | 17.440 | 0.039 | 282.2 | 283.7 | 281.3 | 268.4 |
| 24 | 457.20 | 0.00 | 0.00 | 51.498 | 17.343 | 0.038 | 282.2 | 283.8 | 281.4 | 268.6 |
| 25 | 457.20 | 5.00 | 0.00 | 51.489 | 15.424 | 0.043 | 282.2 | 283.8 | 281.2 | 269.7 |
| 26 | 457.20 | 10.00 | 0.00 | 51.448 | 12.616 | 0.045 | 282.2 | 283.8 | 280.7 | 271.1 |
| 27 | 457.20 | 15.00 | 0.00 | 51.440 | 9.475 | 0.042 | 282.3 | 283.8 | 280.3 | 273.0 |
| 28 | 457.20 | 20.00 | 0.00 | 51.489 | 6.726 | 0.042 | 282.3 | 283.8 | 280.1 | 274.8 |
| 29 | 457.20 | 25.00 | 0.00 | 51.516 | 4.753 | 0.041 | 282.3 | 283.8 | 280.0 | 276.2 |
| 30 | 457.20 | 30.00 | 0.00 | 51.569 | 3.087 | 0.038 | 282.2 | 283.8 | 280.1 | 277.6 |
| 31 | 457.20 | 35.00 | 0.00 | 51.599 | 1.706 | 0.038 | 282.3 | 283.8 | 280.2 | 278.8 |
| 32 | 457.20 | 40.00 | 0.00 | 51.600 | 0.990 | 0.034 | 282.2 | 283.8 | 280.6 | 279.8 |
| 33 | 457.20 | 45.00 | 0.00 | 51.600 | 0.425 | 0.032 | 282.2 | 283.8 | 280.6 | 280.3 |
| 34 | 457.20 | 50.00 | 0.00 | 51.527 | 0.232 | 0.031 | 282.2 | 283.9 | 281.1 | 280.9 |
| 35 | 457.20 | 55.00 | 0.00 | 51.470 | 0.057 | 0.034 | 282.3 | 283.8 | 281.4 | 281.4 |
| 36 | 457.20 | 60.00 | 0.00 | 51.450 | 0.012 | 0.031 | 282.3 | 283.8 | 281.5 | 281.5 |
| 37 | 457.20 | 65.00 | 0.00 | 51.514 | 0.011 | 0.032 | 282.2 | 283.8 | 281.8 | 281.8 |
| 38 | 457.20 | 70.00 | 0.00 | 51.478 | 0.010 | 0.030 | 282.2 | 283.8 | 282.0 | 282.0 |
| 39 | 457.20 | 75.00 | 0.00 | 51.426 | 0.010 | 0.026 | 282.2 | 283.8 | 282.0 | 282.0 |
| 40 | 457.20 | 80.00 | 0.00 | 51.391 | 0.011 | 0.022 | 282.1 | 283.8 | 282.1 | 282.1 |
| 41 | 457.20 | 85.00 | 0.00 | 51.355 | 0.011 | 0.023 | 282.1 | 283.8 | 282.0 | 282.0 |
| 42 | 457.20 | 90.00 | 0.00 | 51.413 | 0.011 | 0.018 | 282.1 | 283.8 | 282.0 | 282.0 |
| 43 | 457.20 | 95.00 | 0.00 | 51.421 | 0.011 | 0.016 | 282.1 | 283.8 | 282.1 | 282.1 |
| 44 | 457.20 | 100.00 | 0.00 | 51.424 | 0.011 | 0.015 | 282.1 | 283.8 | 282.1 | 282.1 |
| 45 | 457.20 | 105.00 | 0.00 | 51.446 | 0.011 | 0.016 | 282.1 | 283.8 | 282.0 | 282.0 |
| 46 | 457.20 | 110.00 | 0.00 | 51.418 | 0.010 | 0.014 | 282.1 | 283.8 | 282.2 | 282.2 |

File : TAB159T 17-NOV-88
17-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config II(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.544 kPa

Mean gauged plenum pressure : 51.220 kPa
RMS gauged plenum pressure : 0.209 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.395 | 0.013 | 0.012 | 284.6 | 284.0 | 283.7 | 283.7 |
| 3 | 457.20 | -105.00 | 0.00 | 51.413 | 0.012 | 0.012 | 284.6 | 284.0 | 283.8 | 283.8 |
| 4 | 457.20 | -100.00 | 0.00 | 51.388 | 0.011 | 0.012 | 284.4 | 284.0 | 283.4 | 283.4 |
| 5 | 457.20 | -95.00 | 0.00 | 51.359 | 0.012 | 0.012 | 284.4 | 284.0 | 283.4 | 283.4 |
| 6 | 457.20 | -90.00 | 0.00 | 51.373 | 0.017 | 0.012 | 284.4 | 284.0 | 282.9 | 282.9 |
| 7 | 457.20 | -85.00 | 0.00 | 51.352 | 0.085 | 0.012 | 284.3 | 284.1 | 283.0 | 282.9 |
| 8 | 457.20 | -80.00 | 0.00 | 51.342 | 0.203 | 0.012 | 284.4 | 284.1 | 282.9 | 282.7 |
| 9 | 457.20 | -75.00 | 0.00 | 51.321 | 0.432 | 0.012 | 284.5 | 284.0 | 283.2 | 282.8 |
| 10 | 457.20 | -70.00 | 0.00 | 51.306 | 0.825 | 0.012 | 284.6 | 284.1 | 282.7 | 282.0 |
| 11 | 457.20 | -65.00 | 0.00 | 51.380 | 1.397 | 0.012 | 284.4 | 284.0 | 282.5 | 281.4 |
| 12 | 457.20 | -60.00 | 0.00 | 51.377 | 2.211 | 0.012 | 284.4 | 284.1 | 282.1 | 280.3 |
| 13 | 457.20 | -55.00 | 0.00 | 51.400 | 3.022 | 0.012 | 284.3 | 284.0 | 282.2 | 279.8 |
| 14 | 457.20 | -50.00 | 0.00 | 51.418 | 4.105 | 0.012 | 284.2 | 284.1 | 282.0 | 278.7 |
| 15 | 457.20 | -45.00 | 0.00 | 51.415 | 5.655 | 0.013 | 284.1 | 284.1 | 281.8 | 277.3 |
| 16 | 457.20 | -40.00 | 0.00 | 51.368 | 7.682 | 0.014 | 284.2 | 284.1 | 281.6 | 275.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 51.396 | 9.953 | 0.013 | 284.2 | 284.0 | 281.4 | 273.8 |
| 18 | 457.20 | -30.00 | 0.00 | 51.404 | 13.095 | 0.012 | 284.4 | 284.0 | 281.5 | 271.6 |
| 19 | 457.20 | -25.00 | 0.00 | 51.362 | 16.650 | 0.013 | 284.4 | 284.1 | 281.3 | 269.0 |
| 20 | 457.20 | -20.00 | 0.00 | 51.289 | 21.038 | 0.013 | 284.5 | 284.1 | 281.5 | 266.3 |
| 21 | 457.20 | -15.00 | 0.00 | 50.940 | 25.132 | 0.013 | 284.5 | 284.1 | 281.7 | 264.0 |
| 22 | 457.20 | -10.00 | 0.00 | 50.959 | 28.451 | 0.013 | 284.5 | 284.1 | 281.8 | 262.1 |
| 23 | 457.20 | -5.00 | 0.00 | 50.986 | 30.647 | 0.019 | 284.5 | 284.1 | 281.9 | 260.9 |
| 24 | 457.20 | 0.00 | 0.00 | 51.033 | 30.201 | 0.015 | 284.8 | 284.2 | 281.8 | 261.0 |
| 25 | 457.20 | 5.00 | 0.00 | 51.075 | 26.957 | 0.015 | 284.9 | 284.2 | 281.9 | 263.0 |
| 26 | 457.20 | 10.00 | 0.00 | 51.099 | 22.790 | 0.014 | 284.9 | 284.2 | 281.3 | 265.0 |
| 27 | 457.20 | 15.00 | 0.00 | 51.072 | 17.503 | 0.016 | 285.0 | 284.2 | 281.6 | 268.7 |
| 28 | 457.20 | 20.00 | 0.00 | 51.043 | 13.485 | 0.020 | 285.1 | 284.2 | 281.2 | 271.1 |
| 29 | 457.20 | 25.00 | 0.00 | 51.043 | 10.118 | 0.018 | 285.0 | 284.2 | 281.5 | 273.7 |
| 30 | 457.20 | 30.00 | 0.00 | 50.970 | 7.058 | 0.020 | 285.0 | 284.2 | 281.7 | 276.2 |
| 31 | 457.20 | 35.00 | 0.00 | 50.919 | 5.447 | 0.017 | 285.1 | 284.2 | 282.1 | 277.8 |
| 32 | 457.20 | 40.00 | 0.00 | 50.858 | 3.529 | 0.020 | 285.2 | 284.2 | 281.9 | 279.1 |
| 33 | 457.20 | 45.00 | 0.00 | 50.863 | 2.419 | 0.023 | 285.3 | 284.1 | 282.5 | 280.5 |
| 34 | 457.20 | 50.00 | 0.00 | 50.879 | 1.728 | 0.022 | 285.0 | 284.2 | 282.4 | 281.0 |
| 35 | 457.20 | 55.00 | 0.00 | 50.799 | 0.960 | 0.025 | 285.0 | 284.2 | 282.6 | 281.8 |
| 36 | 457.20 | 60.00 | 0.00 | 50.726 | 0.671 | 0.022 | 284.8 | 284.1 | 283.0 | 282.5 |
| 37 | 457.20 | 65.00 | 0.00 | 51.426 | 0.427 | 0.018 | 284.9 | 284.2 | 282.9 | 282.6 |
| 38 | 457.20 | 70.00 | 0.00 | 51.385 | 0.312 | 0.023 | 284.9 | 284.1 | 283.2 | 282.9 |
| 39 | 457.20 | 75.00 | 0.00 | 51.343 | 0.104 | 0.027 | 284.8 | 284.1 | 283.4 | 283.3 |
| 40 | 457.20 | 80.00 | 0.00 | 51.402 | 0.018 | 0.023 | 285.0 | 284.2 | 283.4 | 283.4 |
| 41 | 457.20 | 85.00 | 0.00 | 51.183 | 0.012 | 0.020 | 285.5 | 284.2 | 283.8 | 283.8 |
| 42 | 457.20 | 90.00 | 0.00 | 51.228 | 0.012 | 0.023 | 286.0 | 284.2 | 284.3 | 284.3 |
| 43 | 457.20 | 95.00 | 0.00 | 51.307 | 0.012 | 0.024 | 286.4 | 284.2 | 284.4 | 284.4 |
| 44 | 457.20 | 100.00 | 0.00 | 51.260 | 0.012 | 0.022 | 286.7 | 284.2 | 284.5 | 284.5 |
| 45 | 457.20 | 105.00 | 0.00 | 51.307 | 0.012 | 0.024 | 286.8 | 284.2 | 284.6 | 284.6 |
| 46 | 457.20 | 110.00 | 0.00 | 51.346 | 0.012 | 0.027 | 286.5 | 284.2 | 284.7 | 284.7 |

File : TAB160T

17-NOV-88
17-NOV-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
VERTICAL PROFILE
DRPTAB, Config I(A)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.612 kPa

Mean gauged plenum pressure : 51.189 kPa
RMS gauged plenum pressure : 0.099 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 51.193 | 0.014 | 0.013 | 285.8 | 284.3 | 284.7 | 284.7 |
| 3 | 457.20 | 0.00 | -97.00 | 51.195 | 0.013 | 0.012 | 285.9 | 284.3 | 284.9 | 284.9 |
| 4 | 457.20 | 0.00 | -94.00 | 51.298 | 0.012 | 0.014 | 286.0 | 284.3 | 284.8 | 284.8 |
| 5 | 457.20 | 0.00 | -91.00 | 51.308 | 0.012 | 0.013 | 285.9 | 284.3 | 284.7 | 284.7 |
| 6 | 457.20 | 0.00 | -88.00 | 51.285 | 0.013 | 0.012 | 286.1 | 284.3 | 284.8 | 284.8 |
| 7 | 457.20 | 0.00 | -85.00 | 51.206 | 0.015 | 0.013 | 286.1 | 284.4 | 284.6 | 284.6 |
| 8 | 457.20 | 0.00 | -82.00 | 50.990 | 0.045 | 0.013 | 286.0 | 284.3 | 284.2 | 284.2 |
| 9 | 457.20 | 0.00 | -79.00 | 51.020 | 0.118 | 0.013 | 286.0 | 284.4 | 284.2 | 284.1 |
| 10 | 457.20 | 0.00 | -76.00 | 50.961 | 0.144 | 0.012 | 286.1 | 284.3 | 284.4 | 284.3 |
| 11 | 457.20 | 0.00 | -73.00 | 51.032 | 0.265 | 0.012 | 286.2 | 284.3 | 284.3 | 284.1 |
| 12 | 457.20 | 0.00 | -70.00 | 51.296 | 0.494 | 0.012 | 286.1 | 284.3 | 283.9 | 283.5 |
| 13 | 457.20 | 0.00 | -67.00 | 51.249 | 0.691 | 0.012 | 285.8 | 284.3 | 283.5 | 282.9 |
| 14 | 457.20 | 0.00 | -64.00 | 51.143 | 1.048 | 0.012 | 285.8 | 284.3 | 283.5 | 282.6 |
| 15 | 457.20 | 0.00 | -61.00 | 51.126 | 1.306 | 0.012 | 285.8 | 284.3 | 283.3 | 282.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 51.116 | 1.752 | 0.012 | 285.9 | 284.3 | 283.4 | 282.0 |
| 17 | 457.20 | 0.00 | -55.00 | 51.185 | 2.221 | 0.012 | 285.9 | 284.3 | 282.9 | 281.1 |
| 18 | 457.20 | 0.00 | -52.00 | 51.147 | 2.758 | 0.012 | 285.8 | 284.3 | 282.8 | 280.6 |
| 19 | 457.20 | 0.00 | -49.00 | 51.179 | 3.524 | 0.012 | 285.7 | 284.3 | 282.7 | 279.9 |
| 20 | 457.20 | 0.00 | -46.00 | 51.142 | 4.563 | 0.012 | 285.9 | 284.3 | 282.9 | 279.3 |
| 21 | 457.20 | 0.00 | -43.00 | 51.160 | 5.553 | 0.012 | 286.0 | 284.3 | 282.9 | 278.5 |
| 22 | 457.20 | 0.00 | -40.00 | 51.160 | 6.724 | 0.012 | 286.1 | 284.3 | 282.8 | 277.5 |
| 23 | 457.20 | 0.00 | -37.00 | 51.169 | 7.929 | 0.012 | 286.1 | 284.3 | 282.6 | 276.4 |
| 24 | 457.20 | 0.00 | -34.00 | 51.169 | 9.542 | 0.012 | 286.1 | 284.4 | 282.5 | 275.1 |
| 25 | 457.20 | 0.00 | -31.00 | 51.174 | 11.090 | 0.013 | 286.0 | 284.4 | 282.2 | 273.7 |
| 26 | 457.20 | 0.00 | -28.00 | 51.225 | 12.982 | 0.012 | 286.0 | 284.4 | 282.2 | 272.4 |
| 27 | 457.20 | 0.00 | -25.00 | 51.204 | 14.976 | 0.013 | 285.8 | 284.4 | 281.9 | 270.7 |
| 28 | 457.20 | 0.00 | -22.00 | 51.203 | 17.177 | 0.013 | 285.8 | 284.4 | 282.2 | 269.5 |
| 29 | 457.20 | 0.00 | -19.00 | 51.227 | 19.593 | 0.015 | 285.7 | 284.3 | 282.2 | 267.9 |
| 30 | 457.20 | 0.00 | -16.00 | 51.225 | 21.863 | 0.013 | 285.9 | 284.3 | 282.2 | 266.5 |
| 31 | 457.20 | 0.00 | -13.00 | 51.225 | 24.120 | 0.013 | 285.8 | 284.3 | 282.2 | 265.1 |
| 32 | 457.20 | 0.00 | -10.00 | 51.212 | 26.318 | 0.015 | 285.5 | 284.3 | 282.1 | 263.6 |
| 33 | 457.20 | 0.00 | -7.00 | 51.192 | 28.214 | 0.015 | 285.7 | 284.3 | 282.3 | 262.7 |
| 34 | 457.20 | 0.00 | -4.00 | 51.115 | 29.312 | 0.018 | 285.9 | 284.3 | 282.4 | 262.1 |
| 35 | 457.20 | 0.00 | -1.00 | 51.197 | 30.020 | 0.019 | 285.9 | 284.3 | 282.4 | 261.7 |
| 36 | 457.20 | 0.00 | 2.00 | 51.177 | 30.024 | 0.020 | 286.1 | 284.3 | 282.3 | 261.6 |
| 37 | 457.20 | 0.00 | 5.00 | 51.172 | 29.219 | 0.021 | 286.3 | 284.4 | 282.4 | 262.2 |
| 38 | 457.20 | 0.00 | 8.00 | 51.254 | 27.766 | 0.024 | 286.3 | 284.4 | 282.3 | 262.9 |
| 39 | 457.20 | 0.00 | 11.00 | 51.230 | 25.768 | 0.021 | 286.4 | 284.4 | 281.9 | 263.8 |
| 40 | 457.20 | 0.00 | 14.00 | 51.232 | 23.454 | 0.021 | 286.5 | 284.4 | 281.9 | 265.2 |
| 41 | 457.20 | 0.00 | 17.00 | 51.254 | 21.038 | 0.024 | 286.6 | 284.4 | 281.8 | 266.6 |
| 42 | 457.20 | 0.00 | 20.00 | 51.277 | 18.651 | 0.031 | 286.6 | 284.4 | 281.6 | 268.0 |

File : TAB173T 9-DEC-88
22-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
Config II(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.679 kPa

Mean gauged plenum pressure : 51.355 kPa
RMS gauged plenum pressure : 0.146 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.316 | 0.153 | 0.050 | 279.4 | 282.8 | 279.7 | 279.6 |
| 3 | 457.20 | -105.00 | 0.00 | 51.250 | 0.126 | 0.051 | 279.4 | 282.8 | 279.7 | 279.6 |
| 4 | 457.20 | -100.00 | 0.00 | 51.263 | 0.109 | 0.047 | 279.4 | 282.9 | 279.7 | 279.6 |
| 5 | 457.20 | -95.00 | 0.00 | 51.255 | 0.113 | 0.044 | 279.3 | 283.0 | 279.5 | 279.4 |
| 6 | 457.20 | -90.00 | 0.00 | 51.299 | 0.126 | 0.049 | 279.3 | 283.1 | 279.5 | 279.4 |
| 7 | 457.20 | -85.00 | 0.00 | 51.582 | 0.152 | 0.046 | 279.3 | 283.1 | 279.4 | 279.3 |
| 8 | 457.20 | -80.00 | 0.00 | 51.812 | 0.276 | 0.044 | 279.3 | 283.2 | 279.4 | 279.2 |
| 9 | 457.20 | -75.00 | 0.00 | 51.866 | 0.493 | 0.047 | 279.3 | 283.2 | 279.3 | 278.9 |
| 10 | 457.20 | -70.00 | 0.00 | 51.628 | 0.695 | 0.051 | 279.3 | 283.2 | 279.2 | 278.6 |
| 11 | 457.20 | -65.00 | 0.00 | 51.396 | 1.040 | 0.052 | 279.4 | 283.2 | 279.2 | 278.4 |
| 12 | 457.20 | -60.00 | 0.00 | 51.103 | 1.594 | 0.053 | 279.3 | 283.2 | 279.2 | 277.9 |
| 13 | 457.20 | -55.00 | 0.00 | 51.519 | 2.189 | 0.052 | 279.3 | 283.3 | 279.2 | 277.5 |
| 14 | 457.20 | -50.00 | 0.00 | 51.408 | 3.160 | 0.050 | 279.3 | 283.3 | 279.0 | 276.5 |
| 15 | 457.20 | -45.00 | 0.00 | 51.359 | 4.359 | 0.046 | 279.3 | 283.3 | 279.0 | 275.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.329 | 6.290 | 0.050 | 279.3 | 283.3 | 278.9 | 274.0 |
| 17 | 457.20 | -35.00 | 0.00 | 51.405 | 8.450 | 0.049 | 279.3 | 283.4 | 279.0 | 272.5 |
| 18 | 457.20 | -30.00 | 0.00 | 51.365 | 10.668 | 0.047 | 279.3 | 283.3 | 278.8 | 270.7 |
| 19 | 457.20 | -25.00 | 0.00 | 51.409 | 14.003 | 0.047 | 279.3 | 283.4 | 279.0 | 268.6 |
| 20 | 457.20 | -20.00 | 0.00 | 51.346 | 18.173 | 0.052 | 279.3 | 283.4 | 279.1 | 265.9 |
| 21 | 457.20 | -15.00 | 0.00 | 51.386 | 22.593 | 0.050 | 279.3 | 283.4 | 279.4 | 263.4 |
| 22 | 457.20 | -10.00 | 0.00 | 51.354 | 26.541 | 0.052 | 279.3 | 283.4 | 279.8 | 261.3 |
| 23 | 457.20 | -5.00 | 0.00 | 51.314 | 29.675 | 0.048 | 279.4 | 283.4 | 279.9 | 259.6 |
| 24 | 457.20 | 0.00 | 0.00 | 51.333 | 30.869 | 0.042 | 279.3 | 283.4 | 280.1 | 259.1 |
| 25 | 457.20 | 5.00 | 0.00 | 51.275 | 29.333 | 0.042 | 279.4 | 283.4 | 279.9 | 259.8 |
| 26 | 457.20 | 10.00 | 0.00 | 51.317 | 25.810 | 0.044 | 279.3 | 283.4 | 279.6 | 261.6 |
| 27 | 457.20 | 15.00 | 0.00 | 51.314 | 21.578 | 0.043 | 279.3 | 283.4 | 279.3 | 263.9 |
| 28 | 457.20 | 20.00 | 0.00 | 51.339 | 16.311 | 0.046 | 279.4 | 283.4 | 278.8 | 266.9 |
| 29 | 457.20 | 25.00 | 0.00 | 51.310 | 12.087 | 0.043 | 279.4 | 283.5 | 278.7 | 269.6 |
| 30 | 457.20 | 30.00 | 0.00 | 51.384 | 8.437 | 0.046 | 279.4 | 283.4 | 278.6 | 272.1 |
| 31 | 457.20 | 35.00 | 0.00 | 51.398 | 5.608 | 0.041 | 279.4 | 283.4 | 278.6 | 274.2 |
| 32 | 457.20 | 40.00 | 0.00 | 51.396 | 4.008 | 0.034 | 279.4 | 283.5 | 278.7 | 275.5 |
| 33 | 457.20 | 45.00 | 0.00 | 51.306 | 2.600 | 0.038 | 279.4 | 283.5 | 278.8 | 276.7 |
| 34 | 457.20 | 50.00 | 0.00 | 51.307 | 2.130 | 0.036 | 279.5 | 283.5 | 278.9 | 277.2 |
| 35 | 457.20 | 55.00 | 0.00 | 51.250 | 1.246 | 0.034 | 279.4 | 283.5 | 279.1 | 278.1 |
| 36 | 457.20 | 60.00 | 0.00 | 51.198 | 0.757 | 0.037 | 279.4 | 283.5 | 279.1 | 278.5 |
| 37 | 457.20 | 65.00 | 0.00 | 51.133 | 0.406 | 0.035 | 279.5 | 283.5 | 279.2 | 278.9 |
| 38 | 457.20 | 70.00 | 0.00 | 51.147 | 0.270 | 0.029 | 279.5 | 283.5 | 279.3 | 279.1 |
| 39 | 457.20 | 75.00 | 0.00 | 51.192 | 0.089 | 0.026 | 279.5 | 283.5 | 279.4 | 279.3 |
| 40 | 457.20 | 80.00 | 0.00 | 51.235 | 0.037 | 0.024 | 279.5 | 283.5 | 279.6 | 279.6 |
| 41 | 457.20 | 85.00 | 0.00 | 51.330 | 0.012 | 0.019 | 279.4 | 283.5 | 279.6 | 279.6 |
| 42 | 457.20 | 90.00 | 0.00 | 51.339 | 0.012 | 0.017 | 279.5 | 283.5 | 279.6 | 279.6 |
| 43 | 457.20 | 95.00 | 0.00 | 51.357 | 0.012 | 0.019 | 279.5 | 283.5 | 279.8 | 279.8 |
| 44 | 457.20 | 100.00 | 0.00 | 51.311 | 0.012 | 0.014 | 279.5 | 283.5 | 279.6 | 279.6 |
| 45 | 457.20 | 105.00 | 0.00 | 51.354 | 0.012 | 0.013 | 279.5 | 283.5 | 279.7 | 279.7 |
| 46 | 457.20 | 110.00 | 0.00 | 51.398 | 0.012 | 0.013 | 279.6 | 283.5 | 279.7 | 279.7 |

File : TAB182T

11-DEC-88
22-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
Config II(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.968 kPa

Mean gauged plenum pressure : 51.161 kPa
RMS gauged plenum pressure : 0.124 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.053 | 0.039 | 0.012 | 286.1 | 283.9 | 285.6 | 285.6 |
| 3 | 457.20 | -105.00 | 0.00 | 51.000 | 0.014 | 0.012 | 286.1 | 283.9 | 285.8 | 285.8 |
| 4 | 457.20 | -100.00 | 0.00 | 51.016 | 0.016 | 0.014 | 286.0 | 283.9 | 285.4 | 285.4 |
| 5 | 457.20 | -95.00 | 0.00 | 51.060 | 0.025 | 0.013 | 286.0 | 284.0 | 285.3 | 285.3 |
| 6 | 457.20 | -90.00 | 0.00 | 51.079 | 0.020 | 0.014 | 285.9 | 284.0 | 285.2 | 285.2 |
| 7 | 457.20 | -85.00 | 0.00 | 51.111 | 0.143 | 0.013 | 285.9 | 284.1 | 285.0 | 284.9 |
| 8 | 457.20 | -80.00 | 0.00 | 51.153 | 0.228 | 0.012 | 286.0 | 284.1 | 285.0 | 284.8 |
| 9 | 457.20 | -75.00 | 0.00 | 51.163 | 0.344 | 0.013 | 286.0 | 284.2 | 284.9 | 284.6 |
| 10 | 457.20 | -70.00 | 0.00 | 51.129 | 0.990 | 0.013 | 286.0 | 284.2 | 284.5 | 283.7 |
| 11 | 457.20 | -65.00 | 0.00 | 51.121 | 1.184 | 0.014 | 285.9 | 284.2 | 284.2 | 283.2 |
| 12 | 457.20 | -60.00 | 0.00 | 51.081 | 1.926 | 0.012 | 285.9 | 284.2 | 284.0 | 282.4 |
| 13 | 457.20 | -55.00 | 0.00 | 51.043 | 2.858 | 0.013 | 285.9 | 284.2 | 283.7 | 281.4 |
| 14 | 457.20 | -50.00 | 0.00 | 51.009 | 4.027 | 0.013 | 285.8 | 284.2 | 283.4 | 280.2 |
| 15 | 457.20 | -45.00 | 0.00 | 50.985 | 5.714 | 0.012 | 285.8 | 284.2 | 283.1 | 278.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.060 | 7.218 | 0.012 | 285.8 | 284.3 | 282.9 | 277.2 |
| 17 | 457.20 | -35.00 | 0.00 | 51.017 | 9.956 | 0.012 | 285.8 | 284.2 | 282.3 | 274.6 |
| 18 | 457.20 | -30.00 | 0.00 | 51.060 | 12.747 | 0.012 | 285.8 | 284.3 | 282.3 | 272.6 |
| 19 | 457.20 | -25.00 | 0.00 | 51.108 | 16.852 | 0.013 | 285.7 | 284.3 | 282.0 | 269.5 |
| 20 | 457.20 | -20.00 | 0.00 | 51.192 | 21.361 | 0.012 | 286.0 | 284.2 | 282.2 | 266.7 |
| 21 | 457.20 | -15.00 | 0.00 | 51.294 | 25.912 | 0.012 | 286.5 | 284.3 | 282.1 | 263.8 |
| 22 | 457.20 | -10.00 | 0.00 | 51.316 | 29.504 | 0.012 | 286.8 | 284.3 | 282.1 | 261.6 |
| 23 | 457.20 | -5.00 | 0.00 | 51.335 | 31.010 | 0.012 | 287.2 | 284.3 | 282.2 | 260.8 |
| 24 | 457.20 | 0.00 | 0.00 | 51.371 | 30.063 | 0.012 | 287.2 | 284.3 | 282.3 | 261.5 |
| 25 | 457.20 | 5.00 | 0.00 | 51.414 | 27.159 | 0.012 | 286.7 | 284.3 | 282.2 | 263.1 |
| 26 | 457.20 | 10.00 | 0.00 | 51.455 | 22.949 | 0.012 | 286.3 | 284.3 | 282.1 | 265.6 |
| 27 | 457.20 | 15.00 | 0.00 | 51.447 | 18.578 | 0.012 | 286.0 | 284.3 | 282.1 | 268.4 |
| 28 | 457.20 | 20.00 | 0.00 | 51.453 | 14.486 | 0.012 | 285.9 | 284.3 | 282.2 | 271.3 |
| 29 | 457.20 | 25.00 | 0.00 | 51.356 | 10.810 | 0.012 | 285.7 | 284.3 | 282.4 | 274.1 |
| 30 | 457.20 | 30.00 | 0.00 | 51.236 | 8.208 | 0.012 | 285.7 | 284.3 | 282.6 | 276.2 |
| 31 | 457.20 | 35.00 | 0.00 | 51.144 | 6.085 | 0.012 | 285.7 | 284.3 | 282.9 | 278.1 |
| 32 | 457.20 | 40.00 | 0.00 | 51.113 | 4.472 | 0.012 | 285.7 | 284.3 | 283.3 | 279.7 |
| 33 | 457.20 | 45.00 | 0.00 | 51.093 | 3.252 | 0.012 | 285.6 | 284.3 | 283.5 | 280.9 |
| 34 | 457.20 | 50.00 | 0.00 | 51.122 | 2.199 | 0.012 | 285.6 | 284.2 | 283.7 | 281.9 |
| 35 | 457.20 | 55.00 | 0.00 | 51.148 | 1.532 | 0.012 | 285.6 | 284.3 | 284.0 | 282.7 |
| 36 | 457.20 | 60.00 | 0.00 | 51.116 | 0.894 | 0.012 | 285.6 | 284.3 | 284.2 | 283.5 |
| 37 | 457.20 | 65.00 | 0.00 | 51.225 | 0.559 | 0.012 | 285.6 | 284.2 | 284.2 | 283.7 |
| 38 | 457.20 | 70.00 | 0.00 | 51.210 | 0.260 | 0.012 | 285.5 | 284.3 | 284.5 | 284.3 |
| 39 | 457.20 | 75.00 | 0.00 | 51.165 | 0.100 | 0.012 | 285.6 | 284.2 | 284.7 | 284.6 |
| 40 | 457.20 | 80.00 | 0.00 | 51.136 | 0.018 | 0.012 | 285.5 | 284.2 | 284.7 | 284.7 |
| 41 | 457.20 | 85.00 | 0.00 | 51.119 | 0.011 | 0.012 | 285.4 | 284.3 | 284.9 | 284.9 |
| 42 | 457.20 | 90.00 | 0.00 | 51.109 | 0.011 | 0.012 | 285.4 | 284.2 | 284.9 | 284.9 |
| 43 | 457.20 | 95.00 | 0.00 | 51.137 | 0.010 | 0.012 | 285.4 | 284.2 | 285.1 | 285.1 |
| 44 | 457.20 | 100.00 | 0.00 | 51.116 | 0.010 | 0.012 | 285.5 | 284.2 | 285.2 | 285.2 |
| 45 | 457.20 | 105.00 | 0.00 | 51.145 | 0.010 | 0.012 | 285.4 | 284.2 | 285.0 | 285.0 |
| 46 | 457.20 | 110.00 | 0.00 | 51.124 | 0.010 | 0.012 | 285.4 | 284.2 | 285.1 | 285.1 |

File : TAB153T

16-NOV-88
16-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config. II(a)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.070 kPa

Mean gauged plenum pressure : 51.046 kPa
RMS gauged plenum pressure : 0.127 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.128 | 0.012 | 0.012 | 294.9 | 286.6 | 293.4 | 293.4 |
| 3 | 457.20 | -105.00 | 0.00 | 51.123 | 0.011 | 0.012 | 295.0 | 286.6 | 294.5 | 294.5 |
| 4 | 457.20 | -100.00 | 0.00 | 51.135 | 0.011 | 0.012 | 295.0 | 286.5 | 294.7 | 294.7 |
| 5 | 457.20 | -95.00 | 0.00 | 51.127 | 0.010 | 0.012 | 294.9 | 286.5 | 294.2 | 294.2 |
| 6 | 457.20 | -90.00 | 0.00 | 51.191 | 0.009 | 0.012 | 294.9 | 286.5 | 294.3 | 294.3 |
| 7 | 457.20 | -85.00 | 0.00 | 51.195 | 0.009 | 0.012 | 294.8 | 286.4 | 294.0 | 294.0 |
| 8 | 457.20 | -80.00 | 0.00 | 51.146 | 0.009 | 0.012 | 294.6 | 286.4 | 293.9 | 293.9 |
| 9 | 457.20 | -75.00 | 0.00 | 51.064 | 0.010 | 0.012 | 294.2 | 286.3 | 293.5 | 293.5 |
| 10 | 457.20 | -70.00 | 0.00 | 51.022 | 0.009 | 0.012 | 294.1 | 286.3 | 293.3 | 293.3 |
| 11 | 457.20 | -65.00 | 0.00 | 51.039 | 0.010 | 0.012 | 294.1 | 286.3 | 293.3 | 293.3 |
| 12 | 457.20 | -60.00 | 0.00 | 51.050 | 0.027 | 0.012 | 294.1 | 286.3 | 292.9 | 292.9 |
| 13 | 457.20 | -55.00 | 0.00 | 51.003 | 0.012 | 0.012 | 294.2 | 286.3 | 293.0 | 293.0 |
| 14 | 457.20 | -50.00 | 0.00 | 50.970 | 0.133 | 0.012 | 294.3 | 286.3 | 292.8 | 292.7 |
| 15 | 457.20 | -45.00 | 0.00 | 50.950 | 0.246 | 0.012 | 294.3 | 286.3 | 292.5 | 292.3 |
| 16 | 457.20 | -40.00 | 0.00 | 50.914 | 0.324 | 0.012 | 294.3 | 286.3 | 292.3 | 292.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 50.897 | 0.572 | 0.012 | 294.3 | 286.3 | 292.1 | 291.6 |
| 18 | 457.20 | -30.00 | 0.00 | 50.946 | 1.069 | 0.013 | 294.4 | 286.3 | 291.3 | 290.4 |
| 19 | 457.20 | -25.00 | 0.00 | 50.984 | 1.527 | 0.013 | 294.2 | 286.3 | 290.8 | 289.5 |
| 20 | 457.20 | -20.00 | 0.00 | 51.008 | 2.423 | 0.015 | 294.2 | 286.3 | 290.2 | 288.2 |
| 21 | 457.20 | -15.00 | 0.00 | 51.011 | 3.460 | 0.013 | 294.4 | 286.3 | 289.6 | 286.7 |
| 22 | 457.20 | -10.00 | 0.00 | 51.059 | 4.687 | 0.015 | 294.4 | 286.3 | 288.7 | 284.9 |
| 23 | 457.20 | -5.00 | 0.00 | 51.037 | 6.651 | 0.015 | 294.5 | 286.4 | 288.4 | 283.0 |
| 24 | 457.20 | 0.00 | 0.00 | 51.062 | 9.514 | 0.016 | 294.6 | 286.4 | 287.5 | 280.0 |
| 25 | 457.20 | 5.00 | 0.00 | 51.124 | 12.510 | 0.016 | 294.9 | 286.5 | 287.0 | 277.3 |
| 26 | 457.20 | 10.00 | 0.00 | 51.123 | 17.314 | 0.015 | 295.6 | 286.5 | 287.0 | 273.9 |
| 27 | 457.20 | 15.00 | 0.00 | 51.129 | 21.760 | 0.014 | 295.8 | 286.5 | 286.9 | 270.9 |
| 28 | 457.20 | 20.00 | 0.00 | 51.159 | 26.469 | 0.014 | 295.8 | 286.6 | 287.1 | 268.1 |
| 29 | 457.20 | 25.00 | 0.00 | 51.239 | 27.416 | 0.020 | 295.1 | 286.5 | 287.0 | 267.4 |
| 30 | 457.20 | 30.00 | 0.00 | 51.215 | 25.436 | 0.016 | 295.0 | 286.5 | 287.0 | 268.7 |
| 31 | 457.20 | 35.00 | 0.00 | 51.220 | 21.982 | 0.017 | 295.1 | 286.5 | 286.8 | 270.7 |
| 32 | 457.20 | 40.00 | 0.00 | 51.247 | 16.950 | 0.014 | 295.1 | 286.5 | 286.9 | 274.1 |
| 33 | 457.20 | 45.00 | 0.00 | 51.198 | 13.231 | 0.013 | 295.1 | 286.5 | 287.6 | 277.4 |
| 34 | 457.20 | 50.00 | 0.00 | 51.126 | 9.681 | 0.015 | 295.0 | 286.5 | 288.3 | 280.6 |
| 35 | 457.20 | 55.00 | 0.00 | 51.140 | 7.670 | 0.015 | 295.2 | 286.6 | 289.0 | 282.8 |
| 36 | 457.20 | 60.00 | 0.00 | 51.146 | 5.910 | 0.015 | 295.3 | 286.6 | 289.7 | 284.9 |
| 37 | 457.20 | 65.00 | 0.00 | 51.073 | 4.631 | 0.015 | 295.4 | 286.5 | 290.1 | 286.3 |
| 38 | 457.20 | 70.00 | 0.00 | 50.994 | 3.393 | 0.016 | 295.2 | 286.5 | 290.8 | 288.0 |
| 39 | 457.20 | 75.00 | 0.00 | 50.952 | 2.661 | 0.015 | 295.3 | 286.5 | 291.3 | 289.1 |
| 40 | 457.20 | 80.00 | 0.00 | 50.890 | 1.706 | 0.013 | 295.3 | 286.5 | 292.0 | 290.6 |
| 41 | 457.20 | 85.00 | 0.00 | 50.838 | 1.127 | 0.015 | 295.3 | 286.5 | 292.4 | 291.4 |
| 42 | 457.20 | 90.00 | 0.00 | 50.858 | 0.745 | 0.021 | 295.2 | 286.5 | 292.8 | 292.2 |
| 43 | 457.20 | 95.00 | 0.00 | 50.891 | 0.552 | 0.020 | 295.0 | 286.5 | 292.9 | 292.4 |
| 44 | 457.20 | 100.00 | 0.00 | 50.930 | 0.475 | 0.017 | 295.0 | 286.4 | 293.0 | 292.6 |
| 45 | 457.20 | 105.00 | 0.00 | 50.915 | 0.228 | 0.017 | 295.0 | 286.4 | 293.3 | 293.1 |
| 46 | 457.20 | 110.00 | 0.00 | 50.923 | 0.105 | 0.020 | 295.0 | 286.4 | 293.4 | 293.3 |

File : TAB154T 16-NOV-88
16-NOV-88

*Reduced experimental data file*

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config. IV(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.901 kPa

Mean gauged plenum pressure : 51.628 kPa
RMS gauged plenum pressure : 0.343 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 50.835 | 0.038 | 0.021 | 296.0 | 287.5 | 295.2 | 295.2 |
| 3 | 457.20 | 0.00 | -97.00 | 50.746 | 0.050 | 0.020 | 296.2 | 287.4 | 295.3 | 295.3 |
| 4 | 457.20 | 0.00 | -94.00 | 50.709 | 0.029 | 0.020 | 296.3 | 287.3 | 295.4 | 295.4 |
| 5 | 457.20 | 0.00 | -91.00 | 51.329 | 0.057 | 0.022 | 296.3 | 287.2 | 295.0 | 295.0 |
| 6 | 457.20 | 0.00 | -88.00 | 51.238 | 0.068 | 0.021 | 296.3 | 287.1 | 295.1 | 295.0 |
| 7 | 457.20 | 0.00 | -85.00 | 51.241 | 0.113 | 0.023 | 296.4 | 287.1 | 294.9 | 294.8 |
| 8 | 457.20 | 0.00 | -82.00 | 51.225 | 0.156 | 0.023 | 296.4 | 287.1 | 294.9 | 294.8 |
| 9 | 457.20 | 0.00 | -79.00 | 51.236 | 0.199 | 0.018 | 296.6 | 287.1 | 294.9 | 294.7 |
| 10 | 457.20 | 0.00 | -76.00 | 51.266 | 0.276 | 0.015 | 296.9 | 287.0 | 294.6 | 294.4 |
| 11 | 457.20 | 0.00 | -73.00 | 51.356 | 0.426 | 0.020 | 296.8 | 287.0 | 294.3 | 293.9 |
| 12 | 457.20 | 0.00 | -70.00 | 51.477 | 0.584 | 0.022 | 296.6 | 287.0 | 294.0 | 293.5 |
| 13 | 457.20 | 0.00 | -67.00 | 51.606 | 0.832 | 0.025 | 296.5 | 286.9 | 293.6 | 292.9 |
| 14 | 457.20 | 0.00 | -64.00 | 51.783 | 0.888 | 0.019 | 296.5 | 286.9 | 293.4 | 292.6 |
| 15 | 457.20 | 0.00 | -61.00 | 51.904 | 1.116 | 0.015 | 296.9 | 286.9 | 293.0 | 292.1 |
| 16 | 457.20 | 0.00 | -58.00 | 51.868 | 1.537 | 0.017 | 297.3 | 286.8 | 293.0 | 291.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -55.00 | 51.814 | 2.017 | 0.017 | 297.2 | 286.8 | 292.4 | 290.7 |
| 18 | 457.20 | 0.00 | -52.00 | 51.808 | 2.388 | 0.014 | 297.3 | 286.8 | 292.0 | 290.0 |
| 19 | 457.20 | 0.00 | -49.00 | 51.776 | 3.122 | 0.014 | 297.2 | 286.7 | 291.8 | 289.2 |
| 20 | 457.20 | 0.00 | -46.00 | 51.726 | 3.345 | 0.013 | 297.3 | 286.7 | 291.9 | 289.1 |
| 21 | 457.20 | 0.00 | -43.00 | 51.743 | 3.845 | 0.013 | 297.3 | 286.6 | 291.6 | 288.4 |
| 22 | 457.20 | 0.00 | -40.00 | 51.774 | 4.188 | 0.012 | 297.3 | 286.6 | 290.9 | 287.4 |
| 23 | 457.20 | 0.00 | -37.00 | 51.804 | 5.089 | 0.014 | 297.4 | 286.7 | 290.5 | 286.3 |
| 24 | 457.20 | 0.00 | -34.00 | 51.834 | 5.600 | 0.013 | 296.6 | 286.6 | 290.4 | 285.8 |
| 25 | 457.20 | 0.00 | -31.00 | 51.916 | 6.139 | 0.014 | 296.3 | 286.6 | 290.1 | 285.1 |
| 26 | 457.20 | 0.00 | -28.00 | 51.943 | 6.462 | 0.014 | 296.3 | 286.6 | 290.0 | 284.7 |
| 27 | 457.20 | 0.00 | -25.00 | 51.911 | 7.332 | 0.013 | 296.3 | 286.6 | 289.6 | 283.7 |
| 28 | 457.20 | 0.00 | -22.00 | 51.858 | 8.001 | 0.014 | 296.2 | 286.6 | 289.2 | 282.8 |
| 29 | 457.20 | 0.00 | -19.00 | 51.803 | 8.384 | 0.016 | 296.2 | 286.7 | 289.2 | 282.5 |
| 30 | 457.20 | 0.00 | -16.00 | 51.709 | 8.975 | 0.015 | 296.3 | 286.7 | 289.0 | 281.8 |
| 31 | 457.20 | 0.00 | -13.00 | 51.693 | 8.855 | 0.014 | 296.2 | 286.7 | 288.6 | 281.5 |
| 32 | 457.20 | 0.00 | -10.00 | 51.664 | 9.188 | 0.014 | 296.1 | 286.7 | 288.5 | 281.2 |
| 33 | 457.20 | 0.00 | -7.00 | 51.754 | 9.886 | 0.018 | 296.2 | 286.7 | 288.2 | 280.4 |
| 34 | 457.20 | 0.00 | -4.00 | 51.965 | 9.742 | 0.013 | 296.2 | 286.7 | 288.3 | 280.6 |
| 35 | 457.20 | 0.00 | -1.00 | 52.044 | 9.886 | 0.016 | 296.1 | 286.7 | 288.1 | 280.3 |
| 36 | 457.20 | 0.00 | 2.00 | 51.977 | 10.119 | 0.019 | 296.0 | 286.7 | 288.1 | 280.1 |
| 37 | 457.20 | 0.00 | 5.00 | 51.922 | 9.271 | 0.015 | 296.0 | 286.7 | 288.4 | 281.0 |
| 38 | 457.20 | 0.00 | 8.00 | 51.888 | 9.147 | 0.016 | 296.2 | 286.7 | 288.4 | 281.1 |
| 39 | 457.20 | 0.00 | 11.00 | 51.815 | 8.556 | 0.015 | 296.2 | 286.6 | 288.4 | 281.6 |
| 40 | 457.20 | 0.00 | 14.00 | 51.768 | 8.364 | 0.019 | 296.2 | 286.6 | 288.5 | 281.8 |
| 41 | 457.20 | 0.00 | 17.00 | 51.770 | 8.313 | 0.017 | 296.2 | 286.6 | 288.8 | 282.1 |
| 42 | 457.20 | 0.00 | 20.00 | 51.765 | 7.566 | 0.017 | 296.0 | 286.6 | 289.0 | 282.9 |

File : TAB172T

9-DEC-88
21-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
Config IV(a)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.171 kPa

Mean gauged plenum pressure : 51.263 kPa
RMS gauged plenum pressure : 0.262 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.370 | 0.064 | 0.012 | 288.6 | 284.6 | 287.3 | 287.2 |
| 3 | 457.20 | -105.00 | 0.00 | 51.857 | 0.041 | 0.013 | 288.5 | 284.6 | 287.9 | 287.9 |
| 4 | 457.20 | -100.00 | 0.00 | 51.413 | 0.029 | 0.012 | 288.5 | 284.7 | 288.1 | 288.1 |
| 5 | 457.20 | -95.00 | 0.00 | 51.366 | 0.028 | 0.012 | 288.5 | 284.7 | 287.9 | 287.9 |
| 6 | 457.20 | -90.00 | 0.00 | 51.351 | 0.022 | 0.013 | 288.4 | 284.6 | 287.6 | 287.6 |
| 7 | 457.20 | -85.00 | 0.00 | 51.257 | 0.022 | 0.013 | 288.4 | 284.6 | 287.8 | 287.8 |
| 8 | 457.20 | -80.00 | 0.00 | 51.383 | 0.014 | 0.013 | 288.5 | 284.6 | 287.9 | 287.9 |
| 9 | 457.20 | -75.00 | 0.00 | 51.174 | 0.013 | 0.012 | 288.3 | 284.6 | 287.4 | 287.4 |
| 10 | 457.20 | -70.00 | 0.00 | 51.149 | 0.013 | 0.012 | 288.3 | 284.6 | 287.4 | 287.4 |
| 11 | 457.20 | -65.00 | 0.00 | 51.337 | 0.014 | 0.013 | 288.3 | 284.6 | 287.3 | 287.3 |
| 12 | 457.20 | -60.00 | 0.00 | 51.617 | 0.033 | 0.013 | 288.3 | 284.6 | 287.1 | 287.1 |
| 13 | 457.20 | -55.00 | 0.00 | 51.256 | 0.026 | 0.012 | 288.3 | 284.6 | 287.1 | 287.1 |
| 14 | 457.20 | -50.00 | 0.00 | 51.384 | 0.132 | 0.012 | 288.3 | 284.6 | 286.8 | 286.7 |
| 15 | 457.20 | -45.00 | 0.00 | 51.341 | 0.215 | 0.013 | 288.3 | 284.6 | 286.7 | 286.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.081 | 0.374 | 0.013 | 288.0 | 284.6 | 286.3 | 286.0 |
| 17 | 457.20 | -35.00 | 0.00 | 50.888 | 0.656 | 0.013 | 288.0 | 284.6 | 286.0 | 285.5 |
| 18 | 457.20 | -30.00 | 0.00 | 51.110 | 0.938 | 0.012 | 288.0 | 284.5 | 285.7 | 284.9 |
| 19 | 457.20 | -25.00 | 0.00 | 51.023 | 1.506 | 0.013 | 288.1 | 284.6 | 285.3 | 284.1 |
| 20 | 457.20 | -20.00 | 0.00 | 51.121 | 2.246 | 0.012 | 288.0 | 284.5 | 284.8 | 283.0 |
| 21 | 457.20 | -15.00 | 0.00 | 51.247 | 3.142 | 0.012 | 288.0 | 284.5 | 284.5 | 281.9 |
| 22 | 457.20 | -10.00 | 0.00 | 51.539 | 4.430 | 0.013 | 287.9 | 284.5 | 283.8 | 280.2 |
| 23 | 457.20 | -5.00 | 0.00 | 51.506 | 6.176 | 0.012 | 287.9 | 284.5 | 283.6 | 278.7 |
| 24 | 457.20 | 0.00 | 0.00 | 51.480 | 8.366 | 0.013 | 287.7 | 284.5 | 282.8 | 276.3 |
| 25 | 457.20 | 5.00 | 0.00 | 51.325 | 11.579 | 0.012 | 287.9 | 284.5 | 282.7 | 273.8 |
| 26 | 457.20 | 10.00 | 0.00 | 51.209 | 15.431 | 0.013 | 288.3 | 284.5 | 282.5 | 270.9 |
| 27 | 457.20 | 15.00 | 0.00 | 51.083 | 19.991 | 0.012 | 288.6 | 284.5 | 282.8 | 268.2 |
| 28 | 457.20 | 20.00 | 0.00 | 51.453 | 24.067 | 0.012 | 288.8 | 284.5 | 283.1 | 265.9 |
| 29 | 457.20 | 25.00 | 0.00 | 51.534 | 26.491 | 0.012 | 288.8 | 284.5 | 283.2 | 264.5 |
| 30 | 457.20 | 30.00 | 0.00 | 51.189 | 25.209 | 0.013 | 288.7 | 284.5 | 283.2 | 265.3 |
| 31 | 457.20 | 35.00 | 0.00 | 51.396 | 22.020 | 0.013 | 288.4 | 284.5 | 282.7 | 266.8 |
| 32 | 457.20 | 40.00 | 0.00 | 51.522 | 16.876 | 0.014 | 288.1 | 284.5 | 282.4 | 269.9 |
| 33 | 457.20 | 45.00 | 0.00 | 51.428 | 12.655 | 0.012 | 287.8 | 284.5 | 282.5 | 272.9 |
| 34 | 457.20 | 50.00 | 0.00 | 51.254 | 9.175 | 0.012 | 287.8 | 284.5 | 282.8 | 275.7 |
| 35 | 457.20 | 55.00 | 0.00 | 51.123 | 6.861 | 0.012 | 287.8 | 284.5 | 283.2 | 277.8 |
| 36 | 457.20 | 60.00 | 0.00 | 51.015 | 4.911 | 0.012 | 287.8 | 284.5 | 283.7 | 279.8 |
| 37 | 457.20 | 65.00 | 0.00 | 51.002 | 3.447 | 0.012 | 287.8 | 284.5 | 284.3 | 281.5 |
| 38 | 457.20 | 70.00 | 0.00 | 51.138 | 2.461 | 0.012 | 287.7 | 284.4 | 284.6 | 282.6 |
| 39 | 457.20 | 75.00 | 0.00 | 51.289 | 2.144 | 0.012 | 287.7 | 284.5 | 284.9 | 283.1 |
| 40 | 457.20 | 80.00 | 0.00 | 51.513 | 1.466 | 0.012 | 287.6 | 284.5 | 285.2 | 284.0 |
| 41 | 457.20 | 85.00 | 0.00 | 51.248 | 0.815 | 0.012 | 287.6 | 284.5 | 285.4 | 284.7 |
| 42 | 457.20 | 90.00 | 0.00 | 51.157 | 0.701 | 0.012 | 287.6 | 284.4 | 285.6 | 285.0 |
| 43 | 457.20 | 95.00 | 0.00 | 50.960 | 0.555 | 0.012 | 287.5 | 284.4 | 285.6 | 285.1 |
| 44 | 457.20 | 100.00 | 0.00 | 50.711 | 0.338 | 0.012 | 287.5 | 284.4 | 285.9 | 285.6 |
| 45 | 457.20 | 105.00 | 0.00 | 50.523 | 0.116 | 0.012 | 287.4 | 284.4 | 286.3 | 286.2 |
| 46 | 457.20 | 110.00 | 0.00 | 51.018 | 0.076 | 0.012 | 287.4 | 284.4 | 286.3 | 286.2 |

File : TAB179T

10-DEC-88
23-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
Config IV(a)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.138 kPa

Mean gauged plenum pressure : 51.436 kPa
RMS gauged plenum pressure : 0.063 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.392 | 0.053 | 0.013 | 282.2 | 283.8 | 282.5 | 282.5 |
| 3 | 457.20 | -105.00 | 0.00 | 51.402 | 0.035 | 0.013 | 282.1 | 283.8 | 282.4 | 282.4 |
| 4 | 457.20 | -100.00 | 0.00 | 51.422 | 0.025 | 0.012 | 282.1 | 283.8 | 282.4 | 282.4 |
| 5 | 457.20 | -95.00 | 0.00 | 51.434 | 0.026 | 0.013 | 282.1 | 283.8 | 282.2 | 282.2 |
| 6 | 457.20 | -90.00 | 0.00 | 51.464 | 0.018 | 0.013 | 282.0 | 283.8 | 282.1 | 282.1 |
| 7 | 457.20 | -85.00 | 0.00 | 51.428 | 0.017 | 0.013 | 281.9 | 283.8 | 282.1 | 282.1 |
| 8 | 457.20 | -80.00 | 0.00 | 51.388 | 0.014 | 0.014 | 281.9 | 283.8 | 282.0 | 282.0 |
| 9 | 457.20 | -75.00 | 0.00 | 51.353 | 0.014 | 0.012 | 282.0 | 283.9 | 282.1 | 282.1 |
| 10 | 457.20 | -70.00 | 0.00 | 51.357 | 0.014 | 0.016 | 282.0 | 283.8 | 282.2 | 282.2 |
| 11 | 457.20 | -65.00 | 0.00 | 51.367 | 0.015 | 0.013 | 282.1 | 283.8 | 282.1 | 282.1 |
| 12 | 457.20 | -60.00 | 0.00 | 51.387 | 0.046 | 0.013 | 282.0 | 283.8 | 281.8 | 281.8 |
| 13 | 457.20 | -55.00 | 0.00 | 51.367 | 0.073 | 0.014 | 282.1 | 283.8 | 281.8 | 281.7 |
| 14 | 457.20 | -50.00 | 0.00 | 51.358 | 0.196 | 0.013 | 282.1 | 283.8 | 281.8 | 281.6 |
| 15 | 457.20 | -45.00 | 0.00 | 51.382 | 0.321 | 0.013 | 282.1 | 283.8 | 281.7 | 281.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.390 | 0.590 | 0.014 | 282.2 | 283.9 | 281.4 | 280.9 |
| 17 | 457.20 | -35.00 | 0.00 | 51.362 | 0.829 | 0.018 | 282.0 | 283.8 | 281.3 | 280.6 |
| 18 | 457.20 | -30.00 | 0.00 | 51.382 | 1.174 | 0.016 | 282.1 | 283.8 | 281.3 | 280.3 |
| 19 | 457.20 | -25.00 | 0.00 | 51.394 | 1.797 | 0.013 | 282.1 | 283.8 | 281.1 | 279.6 |
| 20 | 457.20 | -20.00 | 0.00 | 51.393 | 2.654 | 0.014 | 282.2 | 283.9 | 280.9 | 278.8 |
| 21 | 457.20 | -15.00 | 0.00 | 51.394 | 3.703 | 0.015 | 282.1 | 283.9 | 280.4 | 277.4 |
| 22 | 457.20 | -10.00 | 0.00 | 51.424 | 5.162 | 0.017 | 282.1 | 283.8 | 280.3 | 276.2 |
| 23 | 457.20 | -5.00 | 0.00 | 51.465 | 7.174 | 0.015 | 282.1 | 283.8 | 279.8 | 274.2 |
| 24 | 457.20 | 0.00 | 0.00 | 51.500 | 9.866 | 0.014 | 282.1 | 283.8 | 279.7 | 272.1 |
| 25 | 457.20 | 5.00 | 0.00 | 51.534 | 13.516 | 0.014 | 282.1 | 283.9 | 279.7 | 269.6 |
| 26 | 457.20 | 10.00 | 0.00 | 51.562 | 17.960 | 0.016 | 282.1 | 283.8 | 279.9 | 266.7 |
| 27 | 457.20 | 15.00 | 0.00 | 51.541 | 22.411 | 0.017 | 282.1 | 283.8 | 280.4 | 264.4 |
| 28 | 457.20 | 20.00 | 0.00 | 51.523 | 25.852 | 0.014 | 282.3 | 283.9 | 280.8 | 262.6 |
| 29 | 457.20 | 25.00 | 0.00 | 51.522 | 27.004 | 0.014 | 282.3 | 283.9 | 281.0 | 262.1 |
| 30 | 457.20 | 30.00 | 0.00 | 51.509 | 25.114 | 0.014 | 282.2 | 283.8 | 280.9 | 263.2 |
| 31 | 457.20 | 35.00 | 0.00 | 51.469 | 21.396 | 0.018 | 282.2 | 283.8 | 280.5 | 265.1 |
| 32 | 457.20 | 40.00 | 0.00 | 51.456 | 17.498 | 0.014 | 282.3 | 283.9 | 280.4 | 267.5 |
| 33 | 457.20 | 45.00 | 0.00 | 51.456 | 13.645 | 0.016 | 282.2 | 283.8 | 280.2 | 269.9 |
| 34 | 457.20 | 50.00 | 0.00 | 51.486 | 10.657 | 0.014 | 282.2 | 283.9 | 280.3 | 272.1 |
| 35 | 457.20 | 55.00 | 0.00 | 51.504 | 8.386 | 0.015 | 282.2 | 283.8 | 280.5 | 274.0 |
| 36 | 457.20 | 60.00 | 0.00 | 51.497 | 6.461 | 0.013 | 282.2 | 283.8 | 280.8 | 275.7 |
| 37 | 457.20 | 65.00 | 0.00 | 51.508 | 5.179 | 0.014 | 282.3 | 283.9 | 281.0 | 276.9 |
| 38 | 457.20 | 70.00 | 0.00 | 51.514 | 3.856 | 0.016 | 282.3 | 283.8 | 281.2 | 278.1 |
| 39 | 457.20 | 75.00 | 0.00 | 51.490 | 3.062 | 0.014 | 282.3 | 283.8 | 281.4 | 278.9 |
| 40 | 457.20 | 80.00 | 0.00 | 51.505 | 2.064 | 0.014 | 282.3 | 283.8 | 281.6 | 279.9 |
| 41 | 457.20 | 85.00 | 0.00 | 51.431 | 1.571 | 0.016 | 282.4 | 283.8 | 281.8 | 280.5 |
| 42 | 457.20 | 90.00 | 0.00 | 51.380 | 1.082 | 0.016 | 282.4 | 283.8 | 281.7 | 280.8 |
| 43 | 457.20 | 95.00 | 0.00 | 51.372 | 0.748 | 0.015 | 282.4 | 283.8 | 282.0 | 281.4 |
| 44 | 457.20 | 100.00 | 0.00 | 51.394 | 0.430 | 0.013 | 282.4 | 283.8 | 281.9 | 281.5 |
| 45 | 457.20 | 105.00 | 0.00 | 51.411 | 0.273 | 0.017 | 282.4 | 283.8 | 282.0 | 281.8 |
| 46 | 457.20 | 110.00 | 0.00 | 51.445 | 0.131 | 0.014 | 282.4 | 283.8 | 282.1 | 282.0 |

File : TAB163T

17-NOV-88
17-NOV-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, kConfig IV(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 51.148 kPa
RMS gauged plenum pressure : 0.419 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 49.581 | 0.042 | 0.022 | 289.1 | 284.9 | 287.7 | 287.7 |
| 3 | 457.20 | -105.00 | 0.00 | 49.683 | 0.021 | 0.019 | 289.1 | 284.9 | 287.8 | 287.8 |
| 4 | 457.20 | -100.00 | 0.00 | 51.071 | 0.015 | 0.019 | 289.1 | 284.9 | 288.0 | 288.0 |
| 5 | 457.20 | -95.00 | 0.00 | 50.913 | 0.014 | 0.019 | 289.2 | 284.9 | 287.9 | 287.9 |
| 6 | 457.20 | -90.00 | 0.00 | 50.857 | 0.018 | 0.022 | 289.2 | 284.9 | 287.7 | 287.7 |
| 7 | 457.20 | -85.00 | 0.00 | 51.561 | 0.141 | 0.022 | 288.8 | 285.0 | 287.2 | 287.1 |
| 8 | 457.20 | -80.00 | 0.00 | 51.714 | 0.281 | 0.021 | 288.9 | 285.0 | 287.2 | 287.0 |
| 9 | 457.20 | -75.00 | 0.00 | 51.693 | 0.528 | 0.019 | 288.8 | 285.0 | 287.0 | 286.6 |
| 10 | 457.20 | -70.00 | 0.00 | 51.664 | 0.723 | 0.017 | 288.9 | 285.0 | 286.6 | 286.0 |
| 11 | 457.20 | -65.00 | 0.00 | 51.058 | 1.201 | 0.018 | 288.7 | 285.0 | 286.4 | 285.4 |
| 12 | 457.20 | -60.00 | 0.00 | 51.065 | 1.812 | 0.021 | 288.6 | 285.0 | 286.1 | 284.6 |
| 13 | 457.20 | -55.00 | 0.00 | 51.045 | 2.662 | 0.022 | 288.7 | 285.0 | 286.2 | 284.0 |
| 14 | 457.20 | -50.00 | 0.00 | 51.054 | 3.734 | 0.022 | 288.6 | 285.0 | 285.9 | 282.9 |
| 15 | 457.20 | -45.00 | 0.00 | 51.027 | 4.998 | 0.023 | 288.5 | 285.0 | 285.4 | 281.4 |
| 16 | 457.20 | -40.00 | 0.00 | 50.996 | 6.491 | 0.016 | 289.0 | 285.0 | 285.1 | 279.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 50.950 | 8.230 | 0.016 | 289.6 | 285.0 | 284.8 | 278.3 |
| 18 | 457.20 | -30.00 | 0.00 | 50.912 | 10.705 | 0.019 | 289.8 | 285.0 | 284.6 | 276.3 |
| 19 | 457.20 | -25.00 | 0.00 | 51.207 | 13.765 | 0.022 | 289.7 | 285.0 | 284.7 | 274.2 |
| 20 | 457.20 | -20.00 | 0.00 | 51.171 | 16.707 | 0.019 | 289.4 | 285.0 | 284.4 | 271.9 |
| 21 | 457.20 | -15.00 | 0.00 | 51.300 | 19.745 | 0.022 | 289.2 | 285.0 | 284.4 | 269.9 |
| 22 | 457.20 | -10.00 | 0.00 | 51.655 | 22.913 | 0.022 | 288.9 | 285.0 | 284.2 | 267.7 |
| 23 | 457.20 | -5.00 | 0.00 | 51.623 | 24.655 | 0.021 | 289.1 | 285.0 | 284.2 | 266.6 |
| 24 | 457.20 | 0.00 | 0.00 | 51.082 | 24.917 | 0.023 | 289.1 | 285.0 | 284.0 | 266.2 |
| 25 | 457.20 | 5.00 | 0.00 | 51.008 | 24.676 | 0.022 | 289.3 | 285.0 | 284.2 | 266.6 |
| 26 | 457.20 | 10.00 | 0.00 | 50.951 | 23.800 | 0.016 | 289.3 | 285.1 | 284.0 | 266.9 |
| 27 | 457.20 | 15.00 | 0.00 | 50.923 | 22.271 | 0.017 | 289.3 | 285.0 | 284.0 | 267.9 |
| 28 | 457.20 | 20.00 | 0.00 | 51.186 | 20.324 | 0.020 | 289.1 | 285.0 | 284.3 | 269.4 |
| 29 | 457.20 | 25.00 | 0.00 | 51.183 | 18.302 | 0.022 | 288.9 | 285.0 | 284.2 | 270.7 |
| 30 | 457.20 | 30.00 | 0.00 | 51.154 | 15.982 | 0.018 | 288.9 | 285.0 | 284.5 | 272.5 |
| 31 | 457.20 | 35.00 | 0.00 | 51.168 | 13.665 | 0.016 | 288.9 | 285.0 | 284.7 | 274.3 |
| 32 | 457.20 | 40.00 | 0.00 | 51.171 | 11.302 | 0.015 | 288.8 | 285.0 | 284.5 | 275.8 |
| 33 | 457.20 | 45.00 | 0.00 | 51.164 | 9.314 | 0.014 | 288.9 | 285.0 | 285.0 | 277.7 |
| 34 | 457.20 | 50.00 | 0.00 | 51.159 | 7.307 | 0.014 | 289.0 | 285.0 | 285.4 | 279.6 |
| 35 | 457.20 | 55.00 | 0.00 | 51.155 | 6.248 | 0.014 | 289.0 | 285.1 | 285.6 | 280.6 |
| 36 | 457.20 | 60.00 | 0.00 | 51.157 | 4.610 | 0.015 | 289.2 | 285.1 | 285.6 | 281.9 |
| 37 | 457.20 | 65.00 | 0.00 | 51.183 | 3.725 | 0.013 | 289.1 | 285.0 | 285.8 | 282.8 |
| 38 | 457.20 | 70.00 | 0.00 | 51.200 | 2.957 | 0.013 | 289.1 | 285.0 | 285.9 | 283.5 |
| 39 | 457.20 | 75.00 | 0.00 | 51.252 | 2.044 | 0.020 | 289.1 | 285.0 | 285.7 | 284.0 |
| 40 | 457.20 | 80.00 | 0.00 | 51.262 | 1.441 | 0.015 | 289.0 | 285.0 | 286.7 | 285.5 |
| 41 | 457.20 | 85.00 | 0.00 | 51.236 | 1.112 | 0.013 | 289.0 | 285.0 | 286.5 | 285.6 |
| 42 | 457.20 | 90.00 | 0.00 | 51.205 | 0.727 | 0.013 | 289.0 | 285.0 | 286.8 | 286.2 |
| 43 | 457.20 | 95.00 | 0.00 | 51.296 | 0.509 | 0.013 | 289.1 | 285.0 | 286.9 | 286.5 |
| 44 | 457.20 | 100.00 | 0.00 | 51.375 | 0.305 | 0.013 | 289.2 | 285.0 | 287.4 | 287.1 |
| 45 | 457.20 | 105.00 | 0.00 | 51.428 | 0.146 | 0.013 | 289.2 | 285.0 | 287.1 | 287.0 |
| 46 | 457.20 | 110.00 | 0.00 | 51.535 | 0.069 | 0.014 | 289.2 | 285.0 | 287.4 | 287.3 |

File : TAB164T 17-NOV-88
17-NOV-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB,
Config IV(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 51.895 kPa
RMS gauged plenum pressure : 0.455 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 51.313 | 0.034 | 0.015 | 288.5 | 284.9 | 287.0 | 287.0 |
| 3 | 457.20 | 0.00 | -97.00 | 51.339 | 0.016 | 0.016 | 288.7 | 284.9 | 287.9 | 287.9 |
| 4 | 457.20 | 0.00 | -94.00 | 51.493 | 0.015 | 0.014 | 288.7 | 284.9 | 287.9 | 287.9 |
| 5 | 457.20 | 0.00 | -91.00 | 51.554 | 0.013 | 0.014 | 288.6 | 284.9 | 287.3 | 287.3 |
| 6 | 457.20 | 0.00 | -88.00 | 51.644 | 0.014 | 0.018 | 288.4 | 284.9 | 287.4 | 287.4 |
| 7 | 457.20 | 0.00 | -85.00 | 51.768 | 0.013 | 0.015 | 288.3 | 284.8 | 287.0 | 287.0 |
| 8 | 457.20 | 0.00 | -82.00 | 51.696 | 0.013 | 0.015 | 288.1 | 284.8 | 287.0 | 287.0 |
| 9 | 457.20 | 0.00 | -79.00 | 51.718 | 0.013 | 0.015 | 288.2 | 284.8 | 286.7 | 286.7 |
| 10 | 457.20 | 0.00 | -76.00 | 51.874 | 0.017 | 0.013 | 288.3 | 284.8 | 286.8 | 286.8 |
| 11 | 457.20 | 0.00 | -73.00 | 51.914 | 0.033 | 0.014 | 288.3 | 284.8 | 286.5 | 286.5 |
| 12 | 457.20 | 0.00 | -70.00 | 52.035 | 0.141 | 0.015 | 288.3 | 284.8 | 286.3 | 286.2 |
| 13 | 457.20 | 0.00 | -67.00 | 52.032 | 0.188 | 0.017 | 288.2 | 284.8 | 286.2 | 286.0 |
| 14 | 457.20 | 0.00 | -64.00 | 52.090 | 0.360 | 0.016 | 288.2 | 284.8 | 285.9 | 285.6 |
| 15 | 457.20 | 0.00 | -61.00 | 52.174 | 0.546 | 0.014 | 288.2 | 284.7 | 285.5 | 285.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 52.241 | 0.743 | 0.013 | 288.2 | 284.7 | 285.3 | 284.7 |
| 17 | 457.20 | 0.00 | -55.00 | 52.289 | 1.098 | 0.014 | 288.2 | 284.8 | 285.0 | 284.1 |
| 18 | 457.20 | 0.00 | -52.00 | 52.310 | 1.480 | 0.016 | 288.1 | 284.7 | 285.0 | 283.8 |
| 19 | 457.20 | 0.00 | -49.00 | 52.316 | 2.011 | 0.015 | 288.1 | 284.7 | 284.4 | 282.8 |
| 20 | 457.20 | 0.00 | -46.00 | 52.332 | 2.574 | 0.013 | 288.2 | 284.7 | 284.4 | 282.3 |
| 21 | 457.20 | 0.00 | -43.00 | 52.292 | 3.461 | 0.013 | 288.1 | 284.7 | 284.1 | 281.3 |
| 22 | 457.20 | 0.00 | -40.00 | 52.606 | 4.247 | 0.013 | 288.0 | 284.7 | 283.8 | 280.4 |
| 23 | 457.20 | 0.00 | -37.00 | 52.607 | 5.401 | 0.013 | 288.1 | 284.7 | 283.7 | 279.4 |
| 24 | 457.20 | 0.00 | -34.00 | 52.620 | 6.501 | 0.014 | 288.2 | 284.7 | 283.6 | 278.5 |
| 25 | 457.20 | 0.00 | -31.00 | 52.607 | 7.932 | 0.015 | 288.2 | 284.7 | 283.4 | 277.2 |
| 26 | 457.20 | 0.00 | -28.00 | 52.566 | 9.312 | 0.017 | 288.0 | 284.7 | 283.2 | 276.0 |
| 27 | 457.20 | 0.00 | -25.00 | 52.589 | 11.296 | 0.016 | 288.0 | 284.7 | 283.1 | 274.4 |
| 28 | 457.20 | 0.00 | -22.00 | 52.801 | 13.593 | 0.013 | 288.2 | 284.7 | 283.0 | 272.7 |
| 29 | 457.20 | 0.00 | -19.00 | 52.179 | 15.439 | 0.012 | 289.1 | 284.7 | 283.1 | 271.5 |
| 30 | 457.20 | 0.00 | -16.00 | 51.609 | 17.525 | 0.012 | 289.4 | 284.7 | 283.4 | 270.4 |
| 31 | 457.20 | 0.00 | -13.00 | 51.597 | 19.891 | 0.012 | 289.3 | 284.7 | 283.4 | 268.9 |
| 32 | 457.20 | 0.00 | -10.00 | 51.581 | 21.954 | 0.013 | 289.2 | 284.7 | 283.7 | 267.8 |
| 33 | 457.20 | 0.00 | -7.00 | 51.599 | 23.831 | 0.012 | 289.3 | 284.7 | 283.4 | 266.3 |
| 34 | 457.20 | 0.00 | -4.00 | 51.538 | 24.560 | 0.013 | 288.5 | 284.7 | 283.6 | 266.1 |
| 35 | 457.20 | 0.00 | -1.00 | 51.534 | 25.403 | 0.013 | 288.1 | 284.7 | 283.5 | 265.5 |
| 36 | 457.20 | 0.00 | 2.00 | 51.506 | 25.045 | 0.013 | 288.0 | 284.7 | 283.2 | 265.4 |
| 37 | 457.20 | 0.00 | 5.00 | 51.451 | 23.976 | 0.014 | 288.1 | 284.7 | 283.2 | 266.1 |
| 38 | 457.20 | 0.00 | 8.00 | 51.401 | 22.814 | 0.013 | 288.1 | 284.7 | 283.0 | 266.6 |
| 39 | 457.20 | 0.00 | 11.00 | 51.400 | 20.826 | 0.012 | 288.0 | 284.6 | 282.8 | 267.7 |
| 40 | 457.20 | 0.00 | 14.00 | 51.450 | 18.769 | 0.012 | 288.0 | 284.7 | 282.5 | 268.7 |
| 41 | 457.20 | 0.00 | 17.00 | 51.473 | 16.623 | 0.012 | 287.9 | 284.6 | 282.6 | 270.3 |
| 42 | 457.20 | 0.00 | 20.00 | 51.446 | 14.163 | 0.012 | 287.9 | 284.7 | 282.6 | 271.9 |

File : TAB174T 9-DEC-88
22-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
Config IV(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.679 kPa

Mean gauged plenum pressure : 51.503 kPa
RMS gauged plenum pressure : 0.145 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.640 | 0.036 | 0.013 | 279.9 | 283.3 | 280.0 | 280.0 |
| 3 | 457.20 | -105.00 | 0.00 | 51.602 | 0.018 | 0.013 | 280.0 | 283.3 | 280.3 | 280.3 |
| 4 | 457.20 | -100.00 | 0.00 | 51.575 | 0.013 | 0.013 | 280.0 | 283.4 | 280.1 | 280.1 |
| 5 | 457.20 | -95.00 | 0.00 | 51.632 | 0.012 | 0.013 | 279.9 | 283.4 | 280.0 | 280.0 |
| 6 | 457.20 | -90.00 | 0.00 | 51.619 | 0.021 | 0.015 | 279.9 | 283.4 | 279.9 | 279.9 |
| 7 | 457.20 | -85.00 | 0.00 | 51.651 | 0.061 | 0.013 | 280.0 | 283.4 | 279.9 | 279.9 |
| 8 | 457.20 | -80.00 | 0.00 | 51.655 | 0.126 | 0.014 | 280.0 | 283.4 | 279.8 | 279.7 |
| 9 | 457.20 | -75.00 | 0.00 | 51.623 | 0.311 | 0.015 | 280.0 | 283.4 | 279.9 | 279.6 |
| 10 | 457.20 | -70.00 | 0.00 | 51.600 | 0.493 | 0.013 | 280.0 | 283.4 | 279.9 | 279.5 |
| 11 | 457.20 | -65.00 | 0.00 | 51.632 | 0.865 | 0.013 | 280.0 | 283.5 | 279.8 | 279.1 |
| 12 | 457.20 | -60.00 | 0.00 | 51.627 | 1.147 | 0.015 | 280.0 | 283.4 | 279.8 | 278.9 |
| 13 | 457.20 | -55.00 | 0.00 | 51.645 | 1.805 | 0.016 | 280.0 | 283.4 | 279.8 | 278.4 |
| 14 | 457.20 | -50.00 | 0.00 | 51.631 | 2.790 | 0.016 | 280.0 | 283.5 | 279.8 | 277.6 |
| 15 | 457.20 | -45.00 | 0.00 | 51.691 | 3.982 | 0.016 | 280.1 | 283.5 | 279.8 | 276.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.690 | 5.250 | 0.017 | 280.1 | 283.5 | 279.6 | 275.5 |
| 17 | 457.20 | -35.00 | 0.00 | 51.666 | 6.832 | 0.021 | 280.1 | 283.5 | 279.5 | 274.2 |
| 18 | 457.20 | -30.00 | 0.00 | 51.471 | 9.167 | 0.018 | 280.2 | 283.5 | 279.6 | 272.6 |
| 19 | 457.20 | -25.00 | 0.00 | 51.070 | 11.601 | 0.019 | 280.2 | 283.5 | 279.7 | 270.9 |
| 20 | 457.20 | -20.00 | 0.00 | 51.356 | 14.932 | 0.023 | 280.1 | 283.5 | 279.8 | 268.7 |
| 21 | 457.20 | -15.00 | 0.00 | 51.336 | 17.823 | 0.029 | 280.2 | 283.5 | 280.1 | 267.1 |
| 22 | 457.20 | -10.00 | 0.00 | 51.654 | 21.650 | 0.023 | 280.2 | 283.5 | 280.4 | 264.9 |
| 23 | 457.20 | -5.00 | 0.00 | 51.331 | 23.830 | 0.024 | 280.3 | 283.5 | 280.4 | 263.6 |
| 24 | 457.20 | 0.00 | 0.00 | 51.462 | 25.232 | 0.025 | 280.3 | 283.5 | 280.5 | 262.8 |
| 25 | 457.20 | 5.00 | 0.00 | 51.491 | 25.400 | 0.027 | 280.3 | 283.5 | 280.4 | 262.6 |
| 26 | 457.20 | 10.00 | 0.00 | 51.455 | 24.527 | 0.021 | 280.4 | 283.5 | 280.3 | 263.0 |
| 27 | 457.20 | 15.00 | 0.00 | 51.511 | 23.056 | 0.025 | 280.4 | 283.5 | 280.2 | 263.8 |
| 28 | 457.20 | 20.00 | 0.00 | 51.549 | 21.139 | 0.028 | 280.4 | 283.5 | 280.1 | 265.0 |
| 29 | 457.20 | 25.00 | 0.00 | 51.554 | 18.879 | 0.029 | 280.4 | 283.5 | 280.1 | 266.4 |
| 30 | 457.20 | 30.00 | 0.00 | 51.526 | 16.380 | 0.027 | 280.4 | 283.5 | 280.0 | 268.0 |
| 31 | 457.20 | 35.00 | 0.00 | 51.531 | 13.608 | 0.026 | 280.5 | 283.4 | 280.0 | 269.8 |
| 32 | 457.20 | 40.00 | 0.00 | 51.512 | 11.135 | 0.026 | 280.5 | 283.5 | 279.9 | 271.5 |
| 33 | 457.20 | 45.00 | 0.00 | 51.451 | 8.695 | 0.024 | 280.5 | 283.5 | 279.8 | 273.1 |
| 34 | 457.20 | 50.00 | 0.00 | 51.493 | 6.523 | 0.024 | 280.5 | 283.5 | 279.7 | 274.6 |
| 35 | 457.20 | 55.00 | 0.00 | 51.451 | 5.249 | 0.027 | 280.6 | 283.5 | 279.9 | 275.8 |
| 36 | 457.20 | 60.00 | 0.00 | 51.392 | 3.837 | 0.028 | 280.6 | 283.5 | 279.9 | 276.9 |
| 37 | 457.20 | 65.00 | 0.00 | 51.391 | 3.082 | 0.028 | 280.7 | 283.5 | 280.0 | 277.5 |
| 38 | 457.20 | 70.00 | 0.00 | 51.405 | 1.911 | 0.027 | 280.7 | 283.5 | 280.3 | 278.8 |
| 39 | 457.20 | 75.00 | 0.00 | 51.400 | 1.399 | 0.029 | 280.7 | 283.5 | 280.2 | 279.1 |
| 40 | 457.20 | 80.00 | 0.00 | 51.383 | 1.186 | 0.028 | 280.8 | 283.5 | 280.4 | 279.4 |
| 41 | 457.20 | 85.00 | 0.00 | 51.385 | 0.589 | 0.024 | 280.9 | 283.5 | 280.5 | 280.0 |
| 42 | 457.20 | 90.00 | 0.00 | 51.383 | 0.373 | 0.024 | 280.9 | 283.5 | 280.7 | 280.4 |
| 43 | 457.20 | 95.00 | 0.00 | 51.400 | 0.289 | 0.028 | 280.9 | 283.5 | 280.5 | 280.3 |
| 44 | 457.20 | 100.00 | 0.00 | 51.424 | 0.118 | 0.028 | 280.9 | 283.5 | 280.6 | 280.5 |
| 45 | 457.20 | 105.00 | 0.00 | 51.415 | 0.056 | 0.027 | 280.9 | 283.5 | 280.6 | 280.6 |
| 46 | 457.20 | 110.00 | 0.00 | 51.386 | 0.027 | 0.027 | 281.0 | 283.5 | 280.6 | 280.6 |

File : TAB183T

11-DEC-88
23-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
Config IV(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.867 kPa

Mean gauged plenum pressure : 51.104 kPa
RMS gauged plenum pressure : 0.061 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.137 | 0.023 | 0.013 | 285.8 | 284.2 | 285.7 | 285.7 |
| 3 | 457.20 | -105.00 | 0.00 | 51.116 | 0.014 | 0.014 | 285.9 | 284.2 | 285.7 | 285.7 |
| 4 | 457.20 | -100.00 | 0.00 | 51.090 | 0.013 | 0.013 | 285.9 | 284.3 | 285.7 | 285.7 |
| 5 | 457.20 | -95.00 | 0.00 | 51.094 | 0.012 | 0.014 | 286.0 | 284.3 | 285.7 | 285.7 |
| 6 | 457.20 | -90.00 | 0.00 | 51.092 | 0.029 | 0.015 | 286.0 | 284.3 | 285.5 | 285.5 |
| 7 | 457.20 | -85.00 | 0.00 | 51.107 | 0.071 | 0.016 | 286.0 | 284.3 | 285.6 | 285.5 |
| 8 | 457.20 | -80.00 | 0.00 | 51.099 | 0.167 | 0.014 | 286.1 | 284.3 | 285.3 | 285.2 |
| 9 | 457.20 | -75.00 | 0.00 | 51.102 | 0.322 | 0.014 | 286.1 | 284.3 | 285.2 | 284.9 |
| 10 | 457.20 | -70.00 | 0.00 | 51.115 | 0.652 | 0.013 | 286.1 | 284.3 | 284.7 | 284.2 |
| 11 | 457.20 | -65.00 | 0.00 | 51.159 | 1.164 | 0.016 | 286.1 | 284.3 | 284.7 | 283.7 |
| 12 | 457.20 | -60.00 | 0.00 | 51.225 | 1.530 | 0.013 | 286.0 | 284.3 | 284.4 | 283.1 |
| 13 | 457.20 | -55.00 | 0.00 | 51.229 | 2.392 | 0.015 | 286.0 | 284.3 | 284.0 | 282.0 |
| 14 | 457.20 | -50.00 | 0.00 | 51.208 | 3.438 | 0.012 | 286.0 | 284.2 | 283.9 | 281.1 |
| 15 | 457.20 | -45.00 | 0.00 | 51.164 | 4.671 | 0.013 | 286.1 | 284.3 | 283.7 | 279.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.144 | 6.551 | 0.013 | 286.1 | 284.3 | 283.4 | 278.2 |
| 17 | 457.20 | -35.00 | 0.00 | 51.132 | 7.529 | 0.016 | 286.1 | 284.3 | 283.3 | 277.4 |
| 18 | 457.20 | -30.00 | 0.00 | 51.157 | 10.263 | 0.014 | 286.1 | 284.3 | 283.1 | 275.1 |
| 19 | 457.20 | -25.00 | 0.00 | 51.218 | 13.595 | 0.014 | 286.1 | 284.2 | 282.9 | 272.6 |
| 20 | 457.20 | -20.00 | 0.00 | 51.225 | 16.793 | 0.014 | 286.1 | 284.3 | 282.9 | 270.4 |
| 21 | 457.20 | -15.00 | 0.00 | 51.161 | 20.176 | 0.013 | 286.1 | 284.3 | 282.9 | 268.1 |
| 22 | 457.20 | -10.00 | 0.00 | 51.109 | 22.785 | 0.014 | 286.0 | 284.2 | 282.8 | 266.3 |
| 23 | 457.20 | -5.00 | 0.00 | 51.099 | 24.536 | 0.015 | 286.2 | 284.2 | 282.9 | 265.3 |
| 24 | 457.20 | 0.00 | 0.00 | 51.066 | 25.204 | 0.012 | 286.9 | 284.2 | 282.9 | 264.9 |
| 25 | 457.20 | 5.00 | 0.00 | 51.030 | 24.607 | 0.013 | 287.2 | 284.2 | 282.8 | 265.2 |
| 26 | 457.20 | 10.00 | 0.00 | 51.001 | 23.520 | 0.012 | 287.2 | 284.3 | 282.7 | 265.8 |
| 27 | 457.20 | 15.00 | 0.00 | 51.028 | 21.761 | 0.016 | 287.4 | 284.3 | 282.7 | 266.9 |
| 28 | 457.20 | 20.00 | 0.00 | 51.037 | 19.615 | 0.012 | 287.3 | 284.3 | 282.8 | 268.4 |
| 29 | 457.20 | 25.00 | 0.00 | 51.080 | 17.469 | 0.015 | 286.7 | 284.3 | 283.0 | 270.0 |
| 30 | 457.20 | 30.00 | 0.00 | 51.125 | 15.056 | 0.017 | 286.4 | 284.3 | 283.2 | 271.8 |
| 31 | 457.20 | 35.00 | 0.00 | 51.143 | 12.860 | 0.015 | 286.3 | 284.3 | 283.2 | 273.4 |
| 32 | 457.20 | 40.00 | 0.00 | 51.145 | 10.805 | 0.013 | 286.3 | 284.3 | 283.4 | 275.0 |
| 33 | 457.20 | 45.00 | 0.00 | 51.099 | 8.960 | 0.014 | 286.2 | 284.3 | 283.5 | 276.5 |
| 34 | 457.20 | 50.00 | 0.00 | 51.081 | 7.487 | 0.014 | 286.2 | 284.3 | 283.7 | 277.8 |
| 35 | 457.20 | 55.00 | 0.00 | 51.066 | 5.972 | 0.013 | 286.2 | 284.3 | 284.0 | 279.2 |
| 36 | 457.20 | 60.00 | 0.00 | 51.035 | 4.847 | 0.013 | 286.2 | 284.3 | 284.3 | 280.4 |
| 37 | 457.20 | 65.00 | 0.00 | 51.065 | 3.793 | 0.013 | 286.3 | 284.4 | 284.4 | 281.3 |
| 38 | 457.20 | 70.00 | 0.00 | 51.044 | 2.984 | 0.013 | 286.4 | 284.3 | 284.8 | 282.4 |
| 39 | 457.20 | 75.00 | 0.00 | 50.992 | 2.274 | 0.013 | 286.4 | 284.4 | 284.8 | 282.9 |
| 40 | 457.20 | 80.00 | 0.00 | 51.021 | 1.752 | 0.014 | 286.4 | 284.4 | 284.9 | 283.5 |
| 41 | 457.20 | 85.00 | 0.00 | 51.031 | 1.268 | 0.015 | 286.4 | 284.3 | 285.1 | 284.1 |
| 42 | 457.20 | 90.00 | 0.00 | 51.019 | 0.901 | 0.016 | 286.4 | 284.3 | 285.2 | 284.5 |
| 43 | 457.20 | 95.00 | 0.00 | 51.076 | 0.500 | 0.017 | 286.4 | 284.4 | 285.3 | 284.9 |
| 44 | 457.20 | 100.00 | 0.00 | 51.125 | 0.344 | 0.015 | 286.5 | 284.4 | 285.2 | 284.9 |
| 45 | 457.20 | 105.00 | 0.00 | 51.095 | 0.141 | 0.017 | 286.4 | 284.4 | 285.6 | 285.5 |
| 46 | 457.20 | 110.00 | 0.00 | 51.073 | 0.137 | 0.016 | 286.5 | 284.4 | 285.8 | 285.7 |

File : TAB242T 3-JAN-89
3-JAN-89

Reduced experimental data file

*HORIZONTAL PROFILE*

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
Config VI(a)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.562 kPa

Mean gauged plenum pressure : 50.927 kPa
RMS gauged plenum pressure : 0.245 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.290 | 0.253 | 0.033 | 282.4 | 279.7 | 282.7 | 282.5 |
| 3 | 457.20 | -105.00 | 0.00 | 51.198 | 0.414 | 0.028 | 282.3 | 279.9 | 282.6 | 282.3 |
| 4 | 457.20 | -100.00 | 0.00 | 51.128 | 0.644 | 0.032 | 282.3 | 280.0 | 282.5 | 282.0 |
| 5 | 457.20 | -95.00 | 0.00 | 50.935 | 0.928 | 0.033 | 282.2 | 280.1 | 282.5 | 281.7 |
| 6 | 457.20 | -90.00 | 0.00 | 50.618 | 1.347 | 0.037 | 282.2 | 280.2 | 282.4 | 281.3 |
| 7 | 457.20 | -85.00 | 0.00 | 50.364 | 1.956 | 0.043 | 282.2 | 280.2 | 282.4 | 280.8 |
| 8 | 457.20 | -80.00 | 0.00 | 50.767 | 2.616 | 0.046 | 282.2 | 280.3 | 282.3 | 280.2 |
| 9 | 457.20 | -75.00 | 0.00 | 50.670 | 3.279 | 0.046 | 282.2 | 280.4 | 282.3 | 279.6 |
| 10 | 457.20 | -70.00 | 0.00 | 50.970 | 4.220 | 0.045 | 282.2 | 280.5 | 282.3 | 278.9 |
| 11 | 457.20 | -65.00 | 0.00 | 51.250 | 5.078 | 0.046 | 282.2 | 280.5 | 282.3 | 278.2 |
| 12 | 457.20 | -60.00 | 0.00 | 51.258 | 6.213 | 0.047 | 282.1 | 280.5 | 282.3 | 277.4 |
| 13 | 457.20 | -55.00 | 0.00 | 51.086 | 7.168 | 0.040 | 282.0 | 280.5 | 282.3 | 276.6 |
| 14 | 457.20 | -50.00 | 0.00 | 51.076 | 7.953 | 0.045 | 282.1 | 280.6 | 282.3 | 276.0 |
| 15 | 457.20 | -45.00 | 0.00 | 50.854 | 8.648 | 0.041 | 282.1 | 280.6 | 282.3 | 275.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 50.526 | 9.420 | 0.045 | 282.1 | 280.6 | 282.3 | 274.9 |
| 17 | 457.20 | -35.00 | 0.00 | 50.936 | 10.202 | 0.041 | 282.1 | 280.6 | 282.3 | 274.4 |
| 18 | 457.20 | -30.00 | 0.00 | 50.727 | 11.084 | 0.043 | 282.0 | 280.6 | 282.2 | 273.6 |
| 19 | 457.20 | -25.00 | 0.00 | 50.860 | 12.395 | 0.044 | 282.0 | 280.6 | 282.2 | 272.7 |
| 20 | 457.20 | -20.00 | 0.00 | 51.050 | 13.938 | 0.046 | 282.0 | 280.6 | 282.2 | 271.6 |
| 21 | 457.20 | -15.00 | 0.00 | 51.176 | 15.777 | 0.045 | 282.0 | 280.7 | 282.2 | 270.3 |
| 22 | 457.20 | -10.00 | 0.00 | 51.412 | 17.888 | 0.051 | 282.0 | 280.7 | 282.2 | 268.9 |
| 23 | 457.20 | -5.00 | 0.00 | 51.011 | 19.093 | 0.052 | 282.0 | 280.7 | 282.2 | 268.1 |
| 24 | 457.20 | 0.00 | 0.00 | 51.022 | 19.907 | 0.052 | 282.0 | 280.7 | 282.2 | 267.6 |
| 25 | 457.20 | 5.00 | 0.00 | 50.950 | 19.452 | 0.056 | 282.0 | 280.7 | 282.1 | 267.8 |
| 26 | 457.20 | 10.00 | 0.00 | 50.699 | 18.086 | 0.052 | 282.0 | 280.6 | 282.1 | 268.7 |
| 27 | 457.20 | 15.00 | 0.00 | 50.739 | 16.475 | 0.049 | 282.0 | 280.7 | 282.1 | 269.8 |
| 28 | 457.20 | 20.00 | 0.00 | 50.587 | 14.578 | 0.050 | 282.1 | 280.7 | 282.1 | 271.1 |
| 29 | 457.20 | 25.00 | 0.00 | 50.818 | 13.066 | 0.045 | 282.1 | 280.7 | 282.1 | 272.1 |
| 30 | 457.20 | 30.00 | 0.00 | 50.868 | 11.567 | 0.046 | 282.1 | 280.7 | 282.1 | 273.2 |
| 31 | 457.20 | 35.00 | 0.00 | 51.035 | 10.425 | 0.042 | 282.1 | 280.7 | 282.1 | 274.0 |
| 32 | 457.20 | 40.00 | 0.00 | 51.032 | 9.256 | 0.047 | 282.1 | 280.7 | 282.1 | 274.9 |
| 33 | 457.20 | 45.00 | 0.00 | 51.193 | 8.313 | 0.044 | 282.1 | 280.7 | 282.1 | 275.6 |
| 34 | 457.20 | 50.00 | 0.00 | 51.034 | 7.474 | 0.042 | 282.1 | 280.7 | 282.1 | 276.2 |
| 35 | 457.20 | 55.00 | 0.00 | 50.970 | 6.179 | 0.042 | 282.1 | 280.7 | 282.1 | 277.2 |
| 36 | 457.20 | 60.00 | 0.00 | 50.937 | 5.332 | 0.041 | 282.1 | 280.7 | 282.1 | 277.8 |
| 37 | 457.20 | 65.00 | 0.00 | 50.728 | 4.424 | 0.038 | 282.1 | 280.7 | 282.0 | 278.4 |
| 38 | 457.20 | 70.00 | 0.00 | 50.585 | 3.622 | 0.038 | 282.1 | 280.7 | 282.0 | 279.1 |
| 39 | 457.20 | 75.00 | 0.00 | 50.432 | 2.872 | 0.036 | 282.1 | 280.7 | 282.1 | 279.8 |
| 40 | 457.20 | 80.00 | 0.00 | 50.851 | 2.035 | 0.032 | 282.1 | 280.7 | 282.1 | 280.4 |
| 41 | 457.20 | 85.00 | 0.00 | 50.990 | 1.528 | 0.028 | 282.1 | 280.7 | 282.1 | 280.8 |
| 42 | 457.20 | 90.00 | 0.00 | 51.160 | 0.990 | 0.026 | 282.0 | 280.7 | 282.1 | 281.3 |
| 43 | 457.20 | 95.00 | 0.00 | 51.349 | 0.695 | 0.025 | 282.0 | 280.7 | 282.1 | 281.5 |
| 44 | 457.20 | 100.00 | 0.00 | 50.824 | 0.371 | 0.020 | 282.1 | 280.6 | 282.1 | 281.8 |
| 45 | 457.20 | 105.00 | 0.00 | 50.821 | 0.196 | 0.025 | 282.1 | 280.7 | 282.1 | 281.9 |
| 46 | 457.20 | 110.00 | 0.00 | 50.807 | 0.102 | 0.017 | 282.1 | 280.7 | 282.1 | 282.0 |

File : TAB241T 2-JAN-89
2-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
Config VI(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.104 kPa

Mean gauged plenum pressure : 51.185 kPa
RMS gauged plenum pressure : 0.285 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.198 | 0.711 | 0.020 | 287.5 | 281.2 | 286.6 | 286.0 |
| 3 | 457.20 | 0.00 | -58.00 | 51.543 | 0.871 | 0.014 | 287.4 | 281.2 | 286.6 | 285.9 |
| 4 | 457.20 | 0.00 | -56.00 | 51.909 | 1.009 | 0.013 | 287.3 | 281.2 | 286.6 | 285.8 |
| 5 | 457.20 | 0.00 | -54.00 | 51.354 | 1.290 | 0.013 | 287.2 | 281.1 | 286.6 | 285.5 |
| 6 | 457.20 | 0.00 | -52.00 | 50.975 | 1.534 | 0.014 | 287.2 | 281.1 | 286.6 | 285.3 |
| 7 | 457.20 | 0.00 | -50.00 | 51.309 | 1.791 | 0.013 | 287.2 | 281.1 | 286.6 | 285.1 |
| 8 | 457.20 | 0.00 | -48.00 | 51.015 | 2.137 | 0.014 | 287.1 | 281.1 | 286.5 | 284.7 |
| 9 | 457.20 | 0.00 | -46.00 | 50.872 | 2.496 | 0.014 | 287.1 | 281.1 | 286.5 | 284.4 |
| 10 | 457.20 | 0.00 | -44.00 | 51.175 | 3.041 | 0.013 | 287.0 | 281.1 | 286.5 | 284.0 |
| 11 | 457.20 | 0.00 | -42.00 | 51.256 | 3.488 | 0.015 | 287.1 | 281.1 | 286.5 | 283.7 |
| 12 | 457.20 | 0.00 | -40.00 | 51.387 | 3.985 | 0.017 | 287.1 | 281.1 | 286.6 | 283.4 |
| 13 | 457.20 | 0.00 | -38.00 | 51.511 | 4.644 | 0.013 | 287.2 | 281.1 | 286.5 | 282.7 |
| 14 | 457.20 | 0.00 | -36.00 | 51.657 | 5.262 | 0.013 | 287.1 | 281.1 | 286.5 | 282.2 |
| 15 | 457.20 | 0.00 | -34.00 | 51.476 | 6.012 | 0.014 | 287.0 | 281.1 | 286.5 | 281.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -32.00 | 50.961 | 6.757 | 0.013 | 287.0 | 281.1 | 286.5 | 281.1 |
| 17 | 457.20 | 0.00 | -30.00 | 50.843 | 7.429 | 0.013 | 287.0 | 281.0 | 286.5 | 280.6 |
| 18 | 457.20 | 0.00 | -28.00 | 50.662 | 8.416 | 0.013 | 287.0 | 281.0 | 286.5 | 279.8 |
| 19 | 457.20 | 0.00 | -26.00 | 50.498 | 9.290 | 0.015 | 287.0 | 281.0 | 286.5 | 279.2 |
| 20 | 457.20 | 0.00 | -24.00 | 51.275 | 10.611 | 0.013 | 287.0 | 281.0 | 286.5 | 278.2 |
| 21 | 457.20 | 0.00 | -22.00 | 51.315 | 11.316 | 0.013 | 287.0 | 281.0 | 286.5 | 277.7 |
| 22 | 457.20 | 0.00 | -20.00 | 51.455 | 12.638 | 0.013 | 287.0 | 281.0 | 286.4 | 276.6 |
| 23 | 457.20 | 0.00 | -18.00 | 51.045 | 13.710 | 0.012 | 286.9 | 281.0 | 286.5 | 276.0 |
| 24 | 457.20 | 0.00 | -16.00 | 51.253 | 14.829 | 0.012 | 287.0 | 281.0 | 286.5 | 275.2 |
| 25 | 457.20 | 0.00 | -14.00 | 51.348 | 16.171 | 0.012 | 287.0 | 281.0 | 286.4 | 274.2 |
| 26 | 457.20 | 0.00 | -12.00 | 51.332 | 17.169 | 0.013 | 286.9 | 281.0 | 286.5 | 273.6 |
| 27 | 457.20 | 0.00 | -10.00 | 51.236 | 18.004 | 0.012 | 286.9 | 281.0 | 286.4 | 272.9 |
| 28 | 457.20 | 0.00 | -8.00 | 51.134 | 18.646 | 0.012 | 286.9 | 281.0 | 286.5 | 272.6 |
| 29 | 457.20 | 0.00 | -6.00 | 51.034 | 19.484 | 0.012 | 286.9 | 281.0 | 286.5 | 272.0 |
| 30 | 457.20 | 0.00 | -4.00 | 51.031 | 19.615 | 0.012 | 286.8 | 280.9 | 286.4 | 271.8 |
| 31 | 457.20 | 0.00 | -2.00 | 51.007 | 19.840 | 0.012 | 286.8 | 281.0 | 286.4 | 271.7 |
| 32 | 457.20 | 0.00 | 0.00 | 51.003 | 19.874 | 0.012 | 286.9 | 281.0 | 286.4 | 271.7 |
| 33 | 457.20 | 0.00 | 2.00 | 51.050 | 19.454 | 0.012 | 286.7 | 281.0 | 286.4 | 271.9 |
| 34 | 457.20 | 0.00 | 4.00 | 51.133 | 19.266 | 0.012 | 286.7 | 281.0 | 286.3 | 272.0 |
| 35 | 457.20 | 0.00 | 6.00 | 51.208 | 18.593 | 0.012 | 286.8 | 281.0 | 286.3 | 272.4 |
| 36 | 457.20 | 0.00 | 8.00 | 51.205 | 17.885 | 0.012 | 286.8 | 280.9 | 286.3 | 272.9 |
| 37 | 457.20 | 0.00 | 10.00 | 51.232 | 16.934 | 0.012 | 286.9 | 281.0 | 286.3 | 273.5 |

File : TAB257T

12-JAN-89
12-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG VI(A)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 51.293 kPa
RMS gauged plenum pressure : 0.297 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.349 | 0.113 | 0.012 | 284.0 | 281.0 | 283.7 | 283.6 |
| 3 | 457.20 | -105.00 | 0.00 | 51.255 | 0.142 | 0.012 | 284.0 | 281.0 | 284.0 | 283.9 |
| 4 | 457.20 | -100.00 | 0.00 | 50.758 | 0.296 | 0.012 | 284.0 | 281.0 | 284.0 | 283.8 |
| 5 | 457.20 | -95.00 | 0.00 | 50.464 | 0.580 | 0.012 | 284.0 | 281.0 | 284.0 | 283.5 |
| 6 | 457.20 | -90.00 | 0.00 | 51.439 | 1.001 | 0.012 | 284.0 | 281.0 | 284.0 | 283.2 |
| 7 | 457.20 | -85.00 | 0.00 | 51.197 | 1.229 | 0.012 | 284.0 | 281.0 | 284.0 | 283.0 |
| 8 | 457.20 | -80.00 | 0.00 | 51.347 | 1.806 | 0.012 | 284.0 | 281.0 | 284.0 | 282.5 |
| 9 | 457.20 | -75.00 | 0.00 | 51.510 | 2.639 | 0.012 | 284.0 | 281.0 | 283.9 | 281.8 |
| 10 | 457.20 | -70.00 | 0.00 | 51.191 | 3.258 | 0.012 | 283.9 | 281.1 | 283.9 | 281.3 |
| 11 | 457.20 | -65.00 | 0.00 | 51.183 | 4.200 | 0.012 | 284.0 | 281.1 | 284.0 | 280.6 |
| 12 | 457.20 | -60.00 | 0.00 | 51.318 | 5.160 | 0.012 | 284.0 | 281.1 | 284.0 | 279.9 |
| 13 | 457.20 | -55.00 | 0.00 | 51.321 | 6.004 | 0.012 | 284.0 | 281.0 | 284.0 | 279.2 |
| 14 | 457.20 | -50.00 | 0.00 | 51.178 | 6.956 | 0.012 | 283.9 | 281.0 | 283.9 | 278.4 |
| 15 | 457.20 | -45.00 | 0.00 | 51.123 | 7.491 | 0.012 | 284.0 | 281.0 | 284.0 | 278.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.211 | 8.234 | 0.012 | 283.9 | 281.0 | 283.9 | 277.4 |
| 17 | 457.20 | -35.00 | 0.00 | 51.227 | 9.030 | 0.013 | 283.9 | 281.0 | 283.9 | 276.9 |
| 18 | 457.20 | -30.00 | 0.00 | 51.550 | 10.253 | 0.013 | 283.9 | 281.0 | 283.9 | 276.0 |
| 19 | 457.20 | -25.00 | 0.00 | 51.411 | 11.642 | 0.013 | 284.0 | 281.1 | 283.9 | 275.0 |
| 20 | 457.20 | -20.00 | 0.00 | 51.385 | 13.253 | 0.012 | 284.0 | 281.1 | 283.9 | 273.8 |
| 21 | 457.20 | -15.00 | 0.00 | 51.330 | 15.761 | 0.013 | 284.0 | 281.1 | 284.0 | 272.2 |
| 22 | 457.20 | -10.00 | 0.00 | 51.207 | 17.898 | 0.013 | 284.0 | 281.1 | 283.9 | 270.6 |
| 23 | 457.20 | -5.00 | 0.00 | 51.199 | 19.167 | 0.013 | 283.9 | 281.0 | 283.9 | 269.8 |
| 24 | 457.20 | 0.00 | 0.00 | 51.147 | 19.790 | 0.012 | 283.9 | 281.1 | 283.9 | 269.4 |
| 25 | 457.20 | 5.00 | 0.00 | 51.421 | 19.366 | 0.012 | 283.9 | 281.0 | 283.9 | 269.7 |
| 26 | 457.20 | 10.00 | 0.00 | 51.189 | 17.722 | 0.012 | 283.9 | 281.0 | 283.9 | 270.8 |
| 27 | 457.20 | 15.00 | 0.00 | 51.318 | 15.467 | 0.014 | 283.9 | 281.0 | 283.9 | 272.3 |
| 28 | 457.20 | 20.00 | 0.00 | 51.446 | 13.403 | 0.012 | 283.9 | 281.1 | 283.9 | 273.7 |
| 29 | 457.20 | 25.00 | 0.00 | 51.381 | 11.260 | 0.013 | 283.9 | 281.1 | 283.9 | 275.2 |
| 30 | 457.20 | 30.00 | 0.00 | 51.224 | 9.723 | 0.012 | 283.9 | 281.1 | 283.9 | 276.4 |
| 31 | 457.20 | 35.00 | 0.00 | 51.107 | 8.338 | 0.012 | 283.9 | 281.1 | 283.9 | 277.4 |
| 32 | 457.20 | 40.00 | 0.00 | 51.378 | 7.311 | 0.012 | 284.0 | 281.0 | 283.9 | 278.1 |
| 33 | 457.20 | 45.00 | 0.00 | 51.212 | 6.487 | 0.012 | 283.9 | 281.0 | 283.9 | 278.8 |
| 34 | 457.20 | 50.00 | 0.00 | 51.281 | 5.323 | 0.012 | 283.9 | 281.0 | 283.9 | 279.7 |
| 35 | 457.20 | 55.00 | 0.00 | 51.217 | 4.429 | 0.014 | 283.9 | 281.0 | 283.9 | 280.3 |
| 36 | 457.20 | 60.00 | 0.00 | 51.228 | 3.820 | 0.013 | 283.9 | 281.0 | 283.9 | 280.8 |
| 37 | 457.20 | 65.00 | 0.00 | 51.465 | 2.976 | 0.013 | 283.9 | 281.0 | 283.9 | 281.5 |
| 38 | 457.20 | 70.00 | 0.00 | 51.348 | 1.940 | 0.013 | 283.9 | 281.1 | 283.9 | 282.3 |
| 39 | 457.20 | 75.00 | 0.00 | 51.354 | 1.995 | 0.013 | 283.9 | 281.1 | 283.9 | 282.3 |
| 40 | 457.20 | 80.00 | 0.00 | 51.225 | 1.146 | 0.013 | 283.9 | 281.1 | 283.9 | 283.0 |
| 41 | 457.20 | 85.00 | 0.00 | 51.183 | 0.860 | 0.012 | 283.9 | 281.1 | 283.9 | 283.2 |
| 42 | 457.20 | 90.00 | 0.00 | 51.348 | 0.702 | 0.012 | 283.9 | 281.0 | 283.9 | 283.3 |
| 43 | 457.20 | 95.00 | 0.00 | 51.163 | 0.395 | 0.012 | 283.9 | 281.0 | 283.9 | 283.6 |
| 44 | 457.20 | 100.00 | 0.00 | 51.196 | 0.250 | 0.013 | 283.9 | 281.0 | 283.9 | 283.7 |
| 45 | 457.20 | 105.00 | 0.00 | 51.345 | 0.147 | 0.014 | 283.9 | 281.0 | 283.9 | 283.8 |
| 46 | 457.20 | 110.00 | 0.00 | 51.426 | 0.108 | 0.015 | 283.9 | 281.1 | 283.9 | 283.8 |

File : TAB269T

18-JAN-89
18-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
CONFIG VI(A)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.375 kPa

Mean gauged plenum pressure : 51.278 kPa
RMS gauged plenum pressure : 0.159 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.240 | 0.100 | 0.013 | 289.8 | 280.8 | 288.0 | 287.9 |
| 3 | 457.20 | -105.00 | 0.00 | 51.342 | 0.184 | 0.013 | 289.6 | 280.9 | 288.2 | 288.0 |
| 4 | 457.20 | -100.00 | 0.00 | 51.284 | 0.227 | 0.013 | 289.5 | 281.0 | 288.3 | 288.1 |
| 5 | 457.20 | -95.00 | 0.00 | 51.420 | 0.479 | 0.014 | 289.3 | 281.0 | 288.3 | 287.9 |
| 6 | 457.20 | -90.00 | 0.00 | 51.241 | 0.588 | 0.015 | 289.2 | 281.0 | 288.3 | 287.8 |
| 7 | 457.20 | -85.00 | 0.00 | 51.194 | 1.345 | 0.014 | 289.2 | 280.9 | 288.3 | 287.2 |
| 8 | 457.20 | -80.00 | 0.00 | 51.453 | 1.963 | 0.014 | 289.1 | 280.9 | 288.3 | 286.7 |
| 9 | 457.20 | -75.00 | 0.00 | 51.173 | 2.746 | 0.012 | 289.4 | 280.9 | 288.5 | 286.2 |
| 10 | 457.20 | -70.00 | 0.00 | 51.317 | 3.157 | 0.012 | 289.5 | 280.9 | 288.6 | 286.0 |
| 11 | 457.20 | -65.00 | 0.00 | 51.345 | 3.807 | 0.015 | 289.5 | 281.0 | 288.6 | 285.5 |
| 12 | 457.20 | -60.00 | 0.00 | 51.358 | 4.877 | 0.013 | 289.6 | 281.0 | 288.6 | 284.6 |
| 13 | 457.20 | -55.00 | 0.00 | 51.273 | 5.476 | 0.012 | 289.8 | 281.0 | 288.5 | 284.1 |
| 14 | 457.20 | -50.00 | 0.00 | 51.349 | 6.300 | 0.012 | 289.7 | 281.1 | 288.6 | 283.5 |
| 15 | 457.20 | -45.00 | 0.00 | 51.296 | 7.349 | 0.012 | 289.9 | 281.1 | 288.6 | 282.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.189 | 7.853 | 0.012 | 290.4 | 281.1 | 288.6 | 282.3 |
| 17 | 457.20 | -35.00 | 0.00 | 51.191 | 8.605 | 0.012 | 290.8 | 281.0 | 288.7 | 281.9 |
| 18 | 457.20 | -30.00 | 0.00 | 51.355 | 9.879 | 0.012 | 290.7 | 281.0 | 288.7 | 280.9 |
| 19 | 457.20 | -25.00 | 0.00 | 51.220 | 11.190 | 0.012 | 290.3 | 281.0 | 288.7 | 279.9 |
| 20 | 457.20 | -20.00 | 0.00 | 51.264 | 12.981 | 0.012 | 289.9 | 281.0 | 288.7 | 278.6 |
| 21 | 457.20 | -15.00 | 0.00 | 51.261 | 15.264 | 0.012 | 289.9 | 281.0 | 288.6 | 276.9 |
| 22 | 457.20 | -10.00 | 0.00 | 51.493 | 17.491 | 0.014 | 289.9 | 281.1 | 288.5 | 275.3 |
| 23 | 457.20 | -5.00 | 0.00 | 51.402 | 18.671 | 0.012 | 290.1 | 281.0 | 288.4 | 274.4 |
| 24 | 457.20 | 0.00 | 0.00 | 51.337 | 19.503 | 0.014 | 290.1 | 281.0 | 288.5 | 273.9 |
| 25 | 457.20 | 5.00 | 0.00 | 51.275 | 18.625 | 0.013 | 290.1 | 281.0 | 288.4 | 274.4 |
| 26 | 457.20 | 10.00 | 0.00 | 51.273 | 16.992 | 0.014 | 289.8 | 280.9 | 288.4 | 275.5 |
| 27 | 457.20 | 15.00 | 0.00 | 51.254 | 14.583 | 0.014 | 289.9 | 280.9 | 288.4 | 277.2 |
| 28 | 457.20 | 20.00 | 0.00 | 51.143 | 12.379 | 0.013 | 289.8 | 280.9 | 288.4 | 278.8 |
| 29 | 457.20 | 25.00 | 0.00 | 51.154 | 10.252 | 0.012 | 289.9 | 280.9 | 288.4 | 280.3 |
| 30 | 457.20 | 30.00 | 0.00 | 51.312 | 8.947 | 0.012 | 290.0 | 281.0 | 288.5 | 281.4 |
| 31 | 457.20 | 35.00 | 0.00 | 51.404 | 7.407 | 0.012 | 289.9 | 281.0 | 288.6 | 282.7 |
| 32 | 457.20 | 40.00 | 0.00 | 51.523 | 6.389 | 0.012 | 290.0 | 281.0 | 288.6 | 283.5 |
| 33 | 457.20 | 45.00 | 0.00 | 51.340 | 5.757 | 0.012 | 289.9 | 281.0 | 288.6 | 283.9 |
| 34 | 457.20 | 50.00 | 0.00 | 51.061 | 4.851 | 0.011 | 289.8 | 281.0 | 288.7 | 284.8 |
| 35 | 457.20 | 55.00 | 0.00 | 51.280 | 4.004 | 0.011 | 289.9 | 281.0 | 288.7 | 285.4 |
| 36 | 457.20 | 60.00 | 0.00 | 51.274 | 3.347 | 0.011 | 290.1 | 281.0 | 288.8 | 286.0 |
| 37 | 457.20 | 65.00 | 0.00 | 51.132 | 2.651 | 0.012 | 290.0 | 281.0 | 288.8 | 286.6 |
| 38 | 457.20 | 70.00 | 0.00 | 51.126 | 2.340 | 0.012 | 289.8 | 281.0 | 288.7 | 286.8 |
| 39 | 457.20 | 75.00 | 0.00 | 51.033 | 1.817 | 0.012 | 289.7 | 281.0 | 288.6 | 287.1 |
| 40 | 457.20 | 80.00 | 0.00 | 51.269 | 1.033 | 0.012 | 289.6 | 281.0 | 288.6 | 287.7 |
| 41 | 457.20 | 85.00 | 0.00 | 51.357 | 0.892 | 0.012 | 289.7 | 281.0 | 288.6 | 287.9 |
| 42 | 457.20 | 90.00 | 0.00 | 51.335 | 0.657 | 0.012 | 289.8 | 281.0 | 288.5 | 288.0 |
| 43 | 457.20 | 95.00 | 0.00 | 51.473 | 0.289 | 0.012 | 289.6 | 281.0 | 288.5 | 288.3 |
| 44 | 457.20 | 100.00 | 0.00 | 51.108 | 0.229 | 0.012 | 289.2 | 280.9 | 288.4 | 288.2 |
| 45 | 457.20 | 105.00 | 0.00 | 51.201 | 0.152 | 0.012 | 289.6 | 280.9 | 288.6 | 288.5 |
| 46 | 457.20 | 110.00 | 0.00 | 51.094 | 0.012 | 0.012 | 289.5 | 280.9 | 288.5 | 288.5 |

File : TAB252T 4-JAN-89
4-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, Config VI(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.408 kPa

Mean gauged plenum pressure : 51.052 kPa
RMS gauged plenum pressure : 0.235 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 50.913 | 0.229 | 0.016 | 276.6 | 279.0 | 276.2 | 276.0 |
| 3 | 457.20 | -105.00 | 0.00 | 51.232 | 0.338 | 0.015 | 276.7 | 279.0 | 276.3 | 276.0 |
| 4 | 457.20 | -100.00 | 0.00 | 50.863 | 0.556 | 0.016 | 276.9 | 279.0 | 276.4 | 276.0 |
| 5 | 457.20 | -95.00 | 0.00 | 50.843 | 0.842 | 0.015 | 276.8 | 279.0 | 276.4 | 275.7 |
| 6 | 457.20 | -90.00 | 0.00 | 50.987 | 1.218 | 0.019 | 276.6 | 278.9 | 276.4 | 275.4 |
| 7 | 457.20 | -85.00 | 0.00 | 51.373 | 1.965 | 0.018 | 276.8 | 278.9 | 276.4 | 274.8 |
| 8 | 457.20 | -80.00 | 0.00 | 51.627 | 2.489 | 0.014 | 276.9 | 278.9 | 276.4 | 274.4 |
| 9 | 457.20 | -75.00 | 0.00 | 51.770 | 3.364 | 0.017 | 276.9 | 279.0 | 276.5 | 273.9 |
| 10 | 457.20 | -70.00 | 0.00 | 51.651 | 4.086 | 0.018 | 277.1 | 279.0 | 276.5 | 273.3 |
| 11 | 457.20 | -65.00 | 0.00 | 51.366 | 5.064 | 0.016 | 277.2 | 279.0 | 276.6 | 272.7 |
| 12 | 457.20 | -60.00 | 0.00 | 51.207 | 5.712 | 0.014 | 277.1 | 279.0 | 276.6 | 272.2 |
| 13 | 457.20 | -55.00 | 0.00 | 51.065 | 6.572 | 0.017 | 277.0 | 279.0 | 276.6 | 271.5 |
| 14 | 457.20 | -50.00 | 0.00 | 50.912 | 7.308 | 0.014 | 277.1 | 279.0 | 276.6 | 271.0 |
| 15 | 457.20 | -45.00 | 0.00 | 50.772 | 7.555 | 0.013 | 277.2 | 279.0 | 276.6 | 270.8 |
| 16 | 457.20 | -40.00 | 0.00 | 50.688 | 8.292 | 0.014 | 277.1 | 279.0 | 276.6 | 270.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 50.691 | 8.794 | 0.014 | 277.2 | 279.0 | 276.7 | 270.0 |
| 18 | 457.20 | -30.00 | 0.00 | 50.808 | 9.299 | 0.012 | 277.3 | 279.0 | 276.7 | 269.6 |
| 19 | 457.20 | -25.00 | 0.00 | 50.883 | 10.372 | 0.012 | 277.2 | 279.0 | 276.7 | 268.9 |
| 20 | 457.20 | -20.00 | 0.00 | 51.001 | 11.958 | 0.012 | 277.2 | 279.0 | 276.7 | 267.8 |
| 21 | 457.20 | -15.00 | 0.00 | 51.082 | 13.373 | 0.012 | 277.0 | 279.0 | 276.6 | 266.7 |
| 22 | 457.20 | -10.00 | 0.00 | 51.059 | 15.405 | 0.014 | 276.8 | 279.0 | 276.6 | 265.3 |
| 23 | 457.20 | -5.00 | 0.00 | 51.008 | 16.617 | 0.012 | 276.8 | 278.9 | 276.5 | 264.4 |
| 24 | 457.20 | 0.00 | 0.00 | 50.896 | 17.266 | 0.012 | 277.0 | 278.9 | 276.5 | 264.0 |
| 25 | 457.20 | 5.00 | 0.00 | 50.722 | 16.804 | 0.012 | 277.0 | 278.9 | 276.5 | 264.3 |
| 26 | 457.20 | 10.00 | 0.00 | 50.822 | 15.474 | 0.012 | 277.1 | 278.9 | 276.6 | 265.3 |
| 27 | 457.20 | 15.00 | 0.00 | 50.985 | 13.736 | 0.013 | 277.0 | 278.9 | 276.5 | 266.3 |
| 28 | 457.20 | 20.00 | 0.00 | 50.955 | 12.050 | 0.013 | 276.9 | 278.9 | 276.5 | 267.5 |
| 29 | 457.20 | 25.00 | 0.00 | 50.988 | 10.603 | 0.013 | 277.0 | 278.9 | 276.6 | 268.6 |
| 30 | 457.20 | 30.00 | 0.00 | 51.076 | 9.235 | 0.017 | 277.0 | 278.9 | 276.6 | 269.6 |
| 31 | 457.20 | 35.00 | 0.00 | 51.165 | 8.865 | 0.016 | 277.1 | 279.0 | 276.6 | 269.9 |
| 32 | 457.20 | 40.00 | 0.00 | 51.193 | 7.836 | 0.018 | 277.0 | 278.9 | 276.6 | 270.6 |
| 33 | 457.20 | 45.00 | 0.00 | 51.273 | 7.209 | 0.013 | 277.2 | 279.0 | 276.7 | 271.2 |
| 34 | 457.20 | 50.00 | 0.00 | 51.246 | 6.620 | 0.015 | 277.2 | 279.0 | 276.7 | 271.6 |
| 35 | 457.20 | 55.00 | 0.00 | 51.161 | 6.150 | 0.016 | 277.3 | 279.0 | 276.7 | 271.9 |
| 36 | 457.20 | 60.00 | 0.00 | 51.096 | 5.151 | 0.015 | 277.3 | 279.0 | 276.7 | 272.7 |
| 37 | 457.20 | 65.00 | 0.00 | 51.061 | 4.607 | 0.017 | 277.4 | 279.0 | 276.8 | 273.2 |
| 38 | 457.20 | 70.00 | 0.00 | 51.044 | 3.682 | 0.020 | 277.2 | 279.0 | 276.8 | 273.9 |
| 39 | 457.20 | 75.00 | 0.00 | 50.976 | 2.814 | 0.013 | 277.4 | 279.0 | 276.8 | 274.6 |
| 40 | 457.20 | 80.00 | 0.00 | 50.983 | 2.099 | 0.017 | 277.4 | 279.0 | 276.9 | 275.2 |
| 41 | 457.20 | 85.00 | 0.00 | 50.981 | 1.797 | 0.013 | 277.6 | 279.0 | 276.9 | 275.5 |
| 42 | 457.20 | 90.00 | 0.00 | 50.980 | 1.256 | 0.014 | 277.7 | 279.0 | 277.1 | 276.1 |
| 43 | 457.20 | 95.00 | 0.00 | 50.987 | 0.907 | 0.014 | 277.7 | 279.1 | 277.0 | 276.3 |
| 44 | 457.20 | 100.00 | 0.00 | 51.018 | 0.487 | 0.016 | 277.6 | 279.0 | 277.0 | 276.6 |
| 45 | 457.20 | 105.00 | 0.00 | 50.965 | 0.275 | 0.023 | 277.3 | 279.0 | 277.0 | 276.8 |
| 46 | 457.20 | 110.00 | 0.00 | 50.980 | 0.134 | 0.019 | 277.4 | 279.0 | 277.0 | 276.9 |

File : TAB253T

4-JAN-89
4-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, Config VI(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 51.109 kPa
RMS gauged plenum pressure : 0.196 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.505 | 1.060 | 0.012 | 277.8 | 279.1 | 277.1 | 276.3 |
| 3 | 457.20 | 0.00 | -58.00 | 51.510 | 1.394 | 0.012 | 277.9 | 279.1 | 277.2 | 276.1 |
| 4 | 457.20 | 0.00 | -56.00 | 51.482 | 1.521 | 0.012 | 278.0 | 279.1 | 277.3 | 276.1 |
| 5 | 457.20 | 0.00 | -54.00 | 51.497 | 1.725 | 0.014 | 278.0 | 279.1 | 277.3 | 275.9 |
| 6 | 457.20 | 0.00 | -52.00 | 51.457 | 2.084 | 0.012 | 278.0 | 279.1 | 277.4 | 275.7 |
| 7 | 457.20 | 0.00 | -50.00 | 51.361 | 2.524 | 0.013 | 278.0 | 279.1 | 277.4 | 275.4 |
| 8 | 457.20 | 0.00 | -48.00 | 51.282 | 2.975 | 0.012 | 278.0 | 279.1 | 277.4 | 275.0 |
| 9 | 457.20 | 0.00 | -46.00 | 51.164 | 3.073 | 0.012 | 277.9 | 279.0 | 277.4 | 275.0 |
| 10 | 457.20 | 0.00 | -44.00 | 51.071 | 3.383 | 0.012 | 277.8 | 279.0 | 277.3 | 274.6 |
| 11 | 457.20 | 0.00 | -42.00 | 51.051 | 4.080 | 0.012 | 277.7 | 279.0 | 277.3 | 274.1 |
| 12 | 457.20 | 0.00 | -40.00 | 50.983 | 4.819 | 0.012 | 277.6 | 279.0 | 277.2 | 273.4 |
| 13 | 457.20 | 0.00 | -38.00 | 50.981 | 5.283 | 0.012 | 277.9 | 279.0 | 277.3 | 273.2 |
| 14 | 457.20 | 0.00 | -36.00 | 50.979 | 5.929 | 0.012 | 277.9 | 279.1 | 277.4 | 272.8 |
| 15 | 457.20 | 0.00 | -34.00 | 50.985 | 6.837 | 0.012 | 277.9 | 279.0 | 277.4 | 272.1 |
| 16 | 457.20 | 0.00 | -32.00 | 50.947 | 7.479 | 0.012 | 277.9 | 279.0 | 277.4 | 271.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -30.00 | 50.975 | 7.909 | 0.012 | 278.0 | 279.0 | 277.4 | 271.3 |
| 18 | 457.20 | 0.00 | -28.00 | 51.007 | 8.663 | 0.014 | 278.0 | 279.1 | 277.5 | 270.9 |
| 19 | 457.20 | 0.00 | -26.00 | 51.085 | 9.522 | 0.013 | 277.8 | 279.1 | 277.4 | 270.2 |
| 20 | 457.20 | 0.00 | -24.00 | 51.065 | 10.511 | 0.012 | 277.9 | 279.1 | 277.4 | 269.5 |
| 21 | 457.20 | 0.00 | -22.00 | 51.131 | 11.564 | 0.013 | 277.9 | 279.1 | 277.4 | 268.7 |
| 22 | 457.20 | 0.00 | -20.00 | 51.115 | 11.986 | 0.012 | 277.9 | 279.1 | 277.4 | 268.4 |
| 23 | 457.20 | 0.00 | -18.00 | 51.105 | 13.219 | 0.012 | 278.1 | 279.1 | 277.5 | 267.7 |
| 24 | 457.20 | 0.00 | -16.00 | 51.080 | 13.635 | 0.015 | 278.1 | 279.1 | 277.5 | 267.4 |
| 25 | 457.20 | 0.00 | -14.00 | 51.098 | 14.701 | 0.015 | 278.1 | 279.1 | 277.5 | 266.7 |
| 26 | 457.20 | 0.00 | -12.00 | 51.081 | 15.248 | 0.014 | 278.1 | 279.1 | 277.5 | 266.3 |
| 27 | 457.20 | 0.00 | -10.00 | 51.034 | 16.066 | 0.012 | 278.1 | 279.1 | 277.5 | 265.7 |
| 28 | 457.20 | 0.00 | -8.00 | 51.032 | 16.469 | 0.013 | 278.1 | 279.1 | 277.5 | 265.5 |
| 29 | 457.20 | 0.00 | -6.00 | 50.963 | 16.872 | 0.013 | 278.1 | 279.1 | 277.6 | 265.3 |
| 30 | 457.20 | 0.00 | -4.00 | 50.879 | 16.906 | 0.013 | 278.2 | 279.1 | 277.6 | 265.3 |
| 31 | 457.20 | 0.00 | -2.00 | 50.902 | 17.212 | 0.014 | 278.1 | 279.1 | 277.7 | 265.2 |
| 32 | 457.20 | 0.00 | 0.00 | 50.917 | 17.228 | 0.014 | 278.2 | 279.1 | 277.7 | 265.2 |
| 33 | 457.20 | 0.00 | 2.00 | 50.903 | 16.680 | 0.014 | 278.3 | 279.1 | 277.7 | 265.5 |
| 34 | 457.20 | 0.00 | 4.00 | 50.646 | 16.624 | 0.012 | 278.1 | 279.1 | 277.7 | 265.6 |
| 35 | 457.20 | 0.00 | 6.00 | 51.156 | 16.355 | 0.015 | 278.0 | 279.1 | 277.6 | 265.7 |
| 36 | 457.20 | 0.00 | 8.00 | 51.156 | 15.885 | 0.013 | 277.9 | 279.1 | 277.6 | 266.0 |
| 37 | 457.20 | 0.00 | 10.00 | 51.155 | 15.124 | 0.019 | 277.8 | 279.1 | 277.4 | 266.3 |

File : TAB264T

16-JAN-89
16-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG VI(B)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.612 kPa

Mean gauged plenum pressure : 51.282 kPa
RMS gauged plenum pressure : 0.223 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.191 | 0.175 | 0.012 | 276.0 | 278.7 | 276.0 | 275.9 |
| 3 | 457.20 | -105.00 | 0.00 | 51.026 | 0.289 | 0.012 | 276.1 | 278.6 | 276.0 | 275.8 |
| 4 | 457.20 | -100.00 | 0.00 | 51.294 | 0.392 | 0.012 | 276.1 | 278.7 | 276.1 | 275.8 |
| 5 | 457.20 | -95.00 | 0.00 | 51.245 | 0.812 | 0.012 | 276.1 | 278.7 | 276.1 | 275.5 |
| 6 | 457.20 | -90.00 | 0.00 | 51.262 | 1.204 | 0.012 | 276.0 | 278.7 | 276.1 | 275.1 |
| 7 | 457.20 | -85.00 | 0.00 | 51.462 | 1.446 | 0.013 | 276.1 | 278.8 | 276.1 | 275.0 |
| 8 | 457.20 | -80.00 | 0.00 | 51.548 | 2.354 | 0.012 | 276.1 | 278.9 | 276.1 | 274.2 |
| 9 | 457.20 | -75.00 | 0.00 | 51.628 | 2.877 | 0.012 | 276.1 | 278.9 | 276.1 | 273.8 |
| 10 | 457.20 | -70.00 | 0.00 | 51.404 | 3.529 | 0.012 | 276.2 | 278.9 | 276.2 | 273.4 |
| 11 | 457.20 | -65.00 | 0.00 | 51.368 | 4.743 | 0.012 | 276.2 | 278.9 | 276.2 | 272.5 |
| 12 | 457.20 | -60.00 | 0.00 | 51.056 | 4.715 | 0.012 | 276.2 | 278.8 | 276.2 | 272.5 |
| 13 | 457.20 | -55.00 | 0.00 | 51.343 | 5.346 | 0.013 | 276.3 | 278.9 | 276.3 | 272.2 |
| 14 | 457.20 | -50.00 | 0.00 | 51.168 | 5.906 | 0.013 | 276.3 | 278.8 | 276.3 | 271.7 |
| 15 | 457.20 | -45.00 | 0.00 | 51.127 | 6.596 | 0.014 | 276.2 | 278.8 | 276.2 | 271.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.078 | 6.638 | 0.013 | 276.2 | 278.8 | 276.2 | 271.1 |
| 17 | 457.20 | -35.00 | 0.00 | 51.435 | 7.519 | 0.014 | 276.2 | 278.8 | 276.2 | 270.5 |
| 18 | 457.20 | -30.00 | 0.00 | 51.288 | 8.427 | 0.014 | 276.2 | 278.8 | 276.2 | 269.8 |
| 19 | 457.20 | -25.00 | 0.00 | 51.344 | 9.665 | 0.015 | 276.2 | 278.8 | 276.2 | 268.9 |
| 20 | 457.20 | -20.00 | 0.00 | 51.404 | 11.416 | 0.016 | 276.2 | 278.8 | 276.2 | 267.7 |
| 21 | 457.20 | -15.00 | 0.00 | 51.400 | 13.404 | 0.014 | 276.2 | 278.8 | 276.2 | 266.3 |
| 22 | 457.20 | -10.00 | 0.00 | 51.261 | 15.541 | 0.017 | 276.3 | 278.9 | 276.2 | 264.9 |
| 23 | 457.20 | -5.00 | 0.00 | 51.137 | 17.082 | 0.018 | 276.4 | 278.9 | 276.3 | 263.9 |
| 24 | 457.20 | 0.00 | 0.00 | 51.117 | 17.187 | 0.019 | 276.4 | 278.9 | 276.3 | 263.9 |
| 25 | 457.20 | 5.00 | 0.00 | 51.151 | 16.713 | 0.015 | 276.5 | 279.0 | 276.3 | 264.2 |
| 26 | 457.20 | 10.00 | 0.00 | 51.412 | 14.873 | 0.018 | 276.5 | 278.9 | 276.3 | 265.4 |
| 27 | 457.20 | 15.00 | 0.00 | 51.287 | 12.669 | 0.019 | 276.5 | 278.9 | 276.3 | 266.9 |
| 28 | 457.20 | 20.00 | 0.00 | 51.445 | 10.789 | 0.016 | 276.5 | 278.9 | 276.4 | 268.3 |
| 29 | 457.20 | 25.00 | 0.00 | 51.542 | 9.113 | 0.021 | 276.6 | 278.9 | 276.4 | 269.5 |
| 30 | 457.20 | 30.00 | 0.00 | 51.418 | 7.647 | 0.015 | 276.7 | 279.0 | 276.4 | 270.6 |
| 31 | 457.20 | 35.00 | 0.00 | 50.883 | 6.631 | 0.018 | 276.7 | 279.0 | 276.5 | 271.4 |
| 32 | 457.20 | 40.00 | 0.00 | 51.308 | 5.823 | 0.020 | 276.7 | 279.0 | 276.5 | 272.0 |
| 33 | 457.20 | 45.00 | 0.00 | 51.315 | 5.416 | 0.022 | 276.8 | 279.0 | 276.5 | 272.3 |
| 34 | 457.20 | 50.00 | 0.00 | 51.147 | 4.439 | 0.021 | 276.8 | 279.0 | 276.5 | 273.0 |
| 35 | 457.20 | 55.00 | 0.00 | 51.373 | 4.036 | 0.020 | 276.8 | 279.0 | 276.6 | 273.4 |
| 36 | 457.20 | 60.00 | 0.00 | 51.038 | 3.223 | 0.017 | 276.8 | 278.9 | 276.6 | 274.1 |
| 37 | 457.20 | 65.00 | 0.00 | 51.349 | 2.843 | 0.014 | 276.8 | 278.9 | 276.6 | 274.4 |
| 38 | 457.20 | 70.00 | 0.00 | 51.177 | 2.476 | 0.018 | 276.7 | 278.9 | 276.6 | 274.6 |
| 39 | 457.20 | 75.00 | 0.00 | 51.283 | 1.864 | 0.020 | 276.7 | 278.9 | 276.5 | 275.0 |
| 40 | 457.20 | 80.00 | 0.00 | 51.515 | 1.315 | 0.021 | 276.7 | 278.8 | 276.5 | 275.5 |
| 41 | 457.20 | 85.00 | 0.00 | 51.291 | 1.246 | 0.017 | 276.6 | 278.9 | 276.5 | 275.5 |
| 42 | 457.20 | 90.00 | 0.00 | 51.444 | 0.737 | 0.014 | 276.5 | 278.8 | 276.5 | 275.9 |
| 43 | 457.20 | 95.00 | 0.00 | 51.295 | 0.432 | 0.017 | 276.6 | 278.8 | 276.5 | 276.2 |
| 44 | 457.20 | 100.00 | 0.00 | 51.215 | 0.315 | 0.018 | 276.6 | 278.8 | 276.5 | 276.2 |
| 45 | 457.20 | 105.00 | 0.00 | 51.227 | 0.221 | 0.018 | 276.7 | 278.9 | 276.5 | 276.3 |
| 46 | 457.20 | 110.00 | 0.00 | 51.518 | 0.099 | 0.019 | 276.8 | 278.9 | 276.6 | 276.5 |

File : TAB273T

19-JAN-89
23-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
CONFIG VI(B)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.612 kPa

Mean gauged plenum pressure : 51.349 kPa
RMS gauged plenum pressure : 0.182 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.237 | 0.117 | 0.012 | 282.7 | 279.6 | 282.3 | 282.2 |
| 3 | 457.20 | -105.00 | 0.00 | 51.043 | 0.193 | 0.012 | 282.7 | 279.6 | 282.4 | 282.2 |
| 4 | 457.20 | -100.00 | 0.00 | 51.420 | 0.322 | 0.012 | 282.8 | 279.7 | 282.5 | 282.2 |
| 5 | 457.20 | -95.00 | 0.00 | 51.562 | 0.578 | 0.013 | 282.8 | 279.7 | 282.6 | 282.1 |
| 6 | 457.20 | -90.00 | 0.00 | 51.599 | 0.807 | 0.013 | 282.8 | 279.8 | 282.6 | 281.9 |
| 7 | 457.20 | -85.00 | 0.00 | 51.563 | 1.393 | 0.012 | 282.8 | 279.8 | 282.6 | 281.5 |
| 8 | 457.20 | -80.00 | 0.00 | 51.310 | 1.964 | 0.013 | 282.9 | 279.7 | 282.6 | 281.0 |
| 9 | 457.20 | -75.00 | 0.00 | 51.169 | 2.724 | 0.013 | 282.9 | 279.8 | 282.7 | 280.5 |
| 10 | 457.20 | -70.00 | 0.00 | 51.421 | 3.243 | 0.015 | 283.0 | 279.8 | 282.7 | 280.1 |
| 11 | 457.20 | -65.00 | 0.00 | 51.225 | 3.619 | 0.018 | 283.0 | 279.8 | 282.7 | 279.8 |
| 12 | 457.20 | -60.00 | 0.00 | 51.327 | 4.448 | 0.013 | 283.0 | 279.8 | 282.7 | 279.2 |
| 13 | 457.20 | -55.00 | 0.00 | 51.244 | 5.128 | 0.017 | 283.0 | 279.8 | 282.7 | 278.6 |
| 14 | 457.20 | -50.00 | 0.00 | 51.507 | 5.792 | 0.016 | 283.1 | 279.8 | 282.8 | 278.2 |
| 15 | 457.20 | -45.00 | 0.00 | 51.626 | 6.251 | 0.015 | 283.1 | 279.8 | 282.8 | 277.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.573 | 6.484 | 0.017 | 283.2 | 279.9 | 282.9 | 277.8 |
| 17 | 457.20 | -35.00 | 0.00 | 51.316 | 7.405 | 0.023 | 283.4 | 279.9 | 282.9 | 277.1 |
| 18 | 457.20 | -30.00 | 0.00 | 51.246 | 8.388 | 0.025 | 283.5 | 279.9 | 283.0 | 276.5 |
| 19 | 457.20 | -25.00 | 0.00 | 51.252 | 9.723 | 0.021 | 283.5 | 279.9 | 283.0 | 275.5 |
| 20 | 457.20 | -20.00 | 0.00 | 51.223 | 11.372 | 0.022 | 283.7 | 279.9 | 283.1 | 274.4 |
| 21 | 457.20 | -15.00 | 0.00 | 51.467 | 13.292 | 0.026 | 283.5 | 280.0 | 283.0 | 272.9 |
| 22 | 457.20 | -10.00 | 0.00 | 51.086 | 15.226 | 0.021 | 283.6 | 280.0 | 283.0 | 271.6 |
| 23 | 457.20 | -5.00 | 0.00 | 51.447 | 16.502 | 0.025 | 283.6 | 280.0 | 283.0 | 270.7 |
| 24 | 457.20 | 0.00 | 0.00 | 51.424 | 17.079 | 0.021 | 283.8 | 280.1 | 283.0 | 270.3 |
| 25 | 457.20 | 5.00 | 0.00 | 51.362 | 16.083 | 0.027 | 283.8 | 280.0 | 283.0 | 271.0 |
| 26 | 457.20 | 10.00 | 0.00 | 51.506 | 14.212 | 0.022 | 283.9 | 280.1 | 283.1 | 272.4 |
| 27 | 457.20 | 15.00 | 0.00 | 51.465 | 12.104 | 0.030 | 284.0 | 280.1 | 283.1 | 273.9 |
| 28 | 457.20 | 20.00 | 0.00 | 51.410 | 10.132 | 0.024 | 284.0 | 280.1 | 283.2 | 275.4 |
| 29 | 457.20 | 25.00 | 0.00 | 51.201 | 8.452 | 0.026 | 284.2 | 280.0 | 283.4 | 276.8 |
| 30 | 457.20 | 30.00 | 0.00 | 51.206 | 7.135 | 0.023 | 284.3 | 280.0 | 283.5 | 277.9 |
| 31 | 457.20 | 35.00 | 0.00 | 51.248 | 6.072 | 0.025 | 284.3 | 280.0 | 283.5 | 278.7 |
| 32 | 457.20 | 40.00 | 0.00 | 51.302 | 5.388 | 0.027 | 284.3 | 280.0 | 283.5 | 279.2 |
| 33 | 457.20 | 45.00 | 0.00 | 51.322 | 4.720 | 0.028 | 284.4 | 280.0 | 283.6 | 279.8 |
| 34 | 457.20 | 50.00 | 0.00 | 51.448 | 4.280 | 0.024 | 284.3 | 280.1 | 283.6 | 280.2 |
| 35 | 457.20 | 55.00 | 0.00 | 51.301 | 3.252 | 0.023 | 284.3 | 280.1 | 283.6 | 281.0 |
| 36 | 457.20 | 60.00 | 0.00 | 51.539 | 2.997 | 0.024 | 284.4 | 280.1 | 283.6 | 281.2 |
| 37 | 457.20 | 65.00 | 0.00 | 51.217 | 2.562 | 0.025 | 284.6 | 280.1 | 283.7 | 281.6 |
| 38 | 457.20 | 70.00 | 0.00 | 51.408 | 2.135 | 0.022 | 284.8 | 280.1 | 283.8 | 282.1 |
| 39 | 457.20 | 75.00 | 0.00 | 51.593 | 1.533 | 0.019 | 285.0 | 280.1 | 283.9 | 282.6 |
| 40 | 457.20 | 80.00 | 0.00 | 51.180 | 1.319 | 0.022 | 285.2 | 280.1 | 284.0 | 282.9 |
| 41 | 457.20 | 85.00 | 0.00 | 51.343 | 0.870 | 0.026 | 285.2 | 280.1 | 284.0 | 283.3 |
| 42 | 457.20 | 90.00 | 0.00 | 51.304 | 0.625 | 0.030 | 285.2 | 280.1 | 284.1 | 283.6 |
| 43 | 457.20 | 95.00 | 0.00 | 51.091 | 0.419 | 0.028 | 285.2 | 280.1 | 284.1 | 283.8 |
| 44 | 457.20 | 100.00 | 0.00 | 51.569 | 0.212 | 0.024 | 285.2 | 280.1 | 284.2 | 284.0 |
| 45 | 457.20 | 105.00 | 0.00 | 51.225 | 0.097 | 0.020 | 285.2 | 280.0 | 284.2 | 284.1 |
| 46 | 457.20 | 110.00 | 0.00 | 51.486 | 0.020 | 0.015 | 285.0 | 280.0 | 284.2 | 284.2 |

File : TAB239T

2-JAN-89
2-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, Config VII(a)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.171 kPa

Mean gauged plenum pressure : 51.010 kPa
RMS gauged plenum pressure : 0.243 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 50.821 | 0.284 | 0.013 | 286.6 | 281.0 | 285.2 | 285.0 |
| 3 | 457.20 | -105.00 | 0.00 | 50.694 | 0.385 | 0.014 | 286.3 | 280.9 | 285.3 | 285.0 |
| 4 | 457.20 | -100.00 | 0.00 | 51.044 | 0.700 | 0.014 | 286.4 | 281.0 | 285.3 | 284.7 |
| 5 | 457.20 | -95.00 | 0.00 | 50.870 | 1.000 | 0.017 | 286.4 | 281.0 | 285.3 | 284.5 |
| 6 | 457.20 | -90.00 | 0.00 | 50.698 | 1.471 | 0.015 | 286.4 | 281.0 | 285.4 | 284.2 |
| 7 | 457.20 | -85.00 | 0.00 | 50.931 | 2.142 | 0.017 | 286.4 | 281.0 | 285.5 | 283.7 |
| 8 | 457.20 | -80.00 | 0.00 | 51.241 | 2.951 | 0.020 | 286.3 | 281.0 | 285.5 | 283.1 |
| 9 | 457.20 | -75.00 | 0.00 | 51.120 | 3.839 | 0.021 | 286.2 | 281.0 | 285.4 | 282.3 |
| 10 | 457.20 | -70.00 | 0.00 | 51.155 | 4.774 | 0.015 | 286.5 | 281.0 | 285.6 | 281.7 |
| 11 | 457.20 | -65.00 | 0.00 | 51.156 | 5.715 | 0.018 | 286.6 | 281.0 | 285.6 | 281.0 |
| 12 | 457.20 | -60.00 | 0.00 | 50.952 | 6.779 | 0.025 | 286.5 | 281.0 | 285.5 | 280.1 |
| 13 | 457.20 | -55.00 | 0.00 | 50.719 | 7.597 | 0.023 | 286.2 | 281.0 | 285.5 | 279.5 |
| 14 | 457.20 | -50.00 | 0.00 | 50.527 | 8.058 | 0.020 | 286.2 | 281.0 | 285.5 | 279.1 |
| 15 | 457.20 | -45.00 | 0.00 | 50.448 | 8.348 | 0.015 | 286.4 | 281.0 | 285.4 | 278.8 |
| 16 | 457.20 | -40.00 | 0.00 | 50.482 | 8.751 | 0.013 | 286.5 | 281.0 | 285.5 | 278.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 51.215 | 9.174 | 0.019 | 286.6 | 281.0 | 285.6 | 278.4 |
| 18 | 457.20 | -30.00 | 0.00 | 51.398 | 9.715 | 0.021 | 286.3 | 281.0 | 285.6 | 278.0 |
| 19 | 457.20 | -25.00 | 0.00 | 50.959 | 10.633 | 0.020 | 286.2 | 281.1 | 285.5 | 277.2 |
| 20 | 457.20 | -20.00 | 0.00 | 50.920 | 12.072 | 0.021 | 286.1 | 281.0 | 285.5 | 276.2 |
| 21 | 457.20 | -15.00 | 0.00 | 50.939 | 14.592 | 0.016 | 286.4 | 281.0 | 285.6 | 274.5 |
| 22 | 457.20 | -10.00 | 0.00 | 50.842 | 16.999 | 0.018 | 286.4 | 281.0 | 285.6 | 272.8 |
| 23 | 457.20 | -5.00 | 0.00 | 50.671 | 19.413 | 0.022 | 286.3 | 281.0 | 285.6 | 271.2 |
| 24 | 457.20 | 0.00 | 0.00 | 50.804 | 20.564 | 0.015 | 286.6 | 281.0 | 285.6 | 270.5 |
| 25 | 457.20 | 5.00 | 0.00 | 50.773 | 20.289 | 0.018 | 286.9 | 281.0 | 285.7 | 270.7 |
| 26 | 457.20 | 10.00 | 0.00 | 51.092 | 18.278 | 0.019 | 286.8 | 281.0 | 285.7 | 272.1 |
| 27 | 457.20 | 15.00 | 0.00 | 51.187 | 15.946 | 0.018 | 286.7 | 281.1 | 285.7 | 273.7 |
| 28 | 457.20 | 20.00 | 0.00 | 51.290 | 13.421 | 0.015 | 286.8 | 281.1 | 285.7 | 275.4 |
| 29 | 457.20 | 25.00 | 0.00 | 51.376 | 11.577 | 0.017 | 286.8 | 281.1 | 285.8 | 276.8 |
| 30 | 457.20 | 30.00 | 0.00 | 50.978 | 10.309 | 0.015 | 286.9 | 281.1 | 285.8 | 277.7 |
| 31 | 457.20 | 35.00 | 0.00 | 51.015 | 9.354 | 0.019 | 286.8 | 281.1 | 285.8 | 278.5 |
| 32 | 457.20 | 40.00 | 0.00 | 51.147 | 8.606 | 0.018 | 286.9 | 281.1 | 285.8 | 279.0 |
| 33 | 457.20 | 45.00 | 0.00 | 51.082 | 8.028 | 0.020 | 286.9 | 281.1 | 285.9 | 279.5 |
| 34 | 457.20 | 50.00 | 0.00 | 51.068 | 7.474 | 0.019 | 287.0 | 281.1 | 286.0 | 280.1 |
| 35 | 457.20 | 55.00 | 0.00 | 51.009 | 6.799 | 0.018 | 287.0 | 281.1 | 286.0 | 280.6 |
| 36 | 457.20 | 60.00 | 0.00 | 50.946 | 5.848 | 0.016 | 287.1 | 281.1 | 286.0 | 281.3 |
| 37 | 457.20 | 65.00 | 0.00 | 50.945 | 4.783 | 0.018 | 287.2 | 281.1 | 286.1 | 282.2 |
| 38 | 457.20 | 70.00 | 0.00 | 50.936 | 3.897 | 0.016 | 287.1 | 281.1 | 286.1 | 282.9 |
| 39 | 457.20 | 75.00 | 0.00 | 50.970 | 3.117 | 0.014 | 287.2 | 281.1 | 286.1 | 283.6 |
| 40 | 457.20 | 80.00 | 0.00 | 51.010 | 2.081 | 0.019 | 287.1 | 281.1 | 286.2 | 284.5 |
| 41 | 457.20 | 85.00 | 0.00 | 51.068 | 1.745 | 0.020 | 287.0 | 281.1 | 286.2 | 284.8 |
| 42 | 457.20 | 90.00 | 0.00 | 51.110 | 1.253 | 0.016 | 287.0 | 281.1 | 286.1 | 285.1 |
| 43 | 457.20 | 95.00 | 0.00 | 51.246 | 0.805 | 0.013 | 287.5 | 281.1 | 286.1 | 285.4 |
| 44 | 457.20 | 100.00 | 0.00 | 51.253 | 0.567 | 0.013 | 288.0 | 281.1 | 286.1 | 285.6 |
| 45 | 457.20 | 105.00 | 0.00 | 51.279 | 0.310 | 0.012 | 288.5 | 281.1 | 286.2 | 285.9 |
| 46 | 457.20 | 110.00 | 0.00 | 51.305 | 0.117 | 0.013 | 288.6 | 281.1 | 286.2 | 286.1 |

File : TAB240T 2-JAN-89
2-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, Config VII(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.104 kPa

Mean gauged plenum pressure : 51.140 kPa
RMS gauged plenum pressure : 0.099 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.080 | 0.660 | 0.015 | 287.1 | 281.1 | 286.2 | 285.7 |
| 3 | 457.20 | 0.00 | -58.00 | 51.076 | 0.814 | 0.016 | 287.0 | 281.1 | 286.1 | 285.4 |
| 4 | 457.20 | 0.00 | -56.00 | 51.119 | 1.057 | 0.015 | 287.0 | 281.1 | 286.2 | 285.3 |
| 5 | 457.20 | 0.00 | -54.00 | 51.115 | 1.196 | 0.020 | 286.9 | 281.0 | 286.2 | 285.2 |
| 6 | 457.20 | 0.00 | -52.00 | 51.096 | 1.560 | 0.019 | 286.9 | 281.0 | 286.2 | 284.9 |
| 7 | 457.20 | 0.00 | -50.00 | 51.086 | 1.892 | 0.017 | 286.6 | 281.0 | 286.2 | 284.6 |
| 8 | 457.20 | 0.00 | -48.00 | 51.036 | 2.181 | 0.016 | 286.5 | 280.9 | 286.1 | 284.3 |
| 9 | 457.20 | 0.00 | -46.00 | 51.005 | 2.670 | 0.021 | 286.5 | 281.0 | 286.1 | 283.9 |
| 10 | 457.20 | 0.00 | -44.00 | 50.985 | 3.132 | 0.023 | 286.5 | 280.9 | 286.0 | 283.4 |
| 11 | 457.20 | 0.00 | -42.00 | 50.964 | 3.670 | 0.020 | 286.4 | 280.9 | 285.9 | 282.9 |
| 12 | 457.20 | 0.00 | -40.00 | 50.971 | 4.301 | 0.020 | 286.5 | 281.0 | 286.0 | 282.5 |
| 13 | 457.20 | 0.00 | -38.00 | 50.931 | 4.852 | 0.020 | 286.6 | 281.0 | 285.9 | 282.0 |
| 14 | 457.20 | 0.00 | -36.00 | 51.029 | 5.682 | 0.019 | 286.7 | 281.0 | 285.9 | 281.3 |
| 15 | 457.20 | 0.00 | -34.00 | 51.060 | 6.459 | 0.019 | 286.8 | 281.1 | 286.0 | 280.8 |
| 16 | 457.20 | 0.00 | -32.00 | 51.106 | 7.164 | 0.021 | 287.1 | 281.1 | 286.1 | 280.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -30.00 | 51.116 | 8.264 | 0.025 | 287.1 | 281.1 | 286.1 | 279.6 |
| 18 | 457.20 | 0.00 | -28.00 | 51.095 | 9.068 | 0.016 | 287.2 | 281.0 | 286.2 | 279.0 |
| 19 | 457.20 | 0.00 | -26.00 | 51.161 | 9.986 | 0.027 | 287.2 | 281.1 | 286.3 | 278.5 |
| 20 | 457.20 | 0.00 | -24.00 | 51.179 | 11.180 | 0.025 | 287.2 | 281.1 | 286.3 | 277.6 |
| 21 | 457.20 | 0.00 | -22.00 | 51.233 | 12.108 | 0.021 | 287.1 | 281.1 | 286.3 | 276.9 |
| 22 | 457.20 | 0.00 | -20.00 | 51.293 | 13.451 | 0.028 | 287.0 | 281.1 | 286.3 | 276.0 |
| 23 | 457.20 | 0.00 | -18.00 | 51.276 | 14.653 | 0.025 | 286.9 | 281.1 | 286.3 | 275.1 |
| 24 | 457.20 | 0.00 | -16.00 | 51.277 | 15.748 | 0.021 | 287.1 | 281.1 | 286.3 | 274.4 |
| 25 | 457.20 | 0.00 | -14.00 | 51.284 | 16.763 | 0.016 | 287.2 | 281.2 | 286.4 | 273.8 |
| 26 | 457.20 | 0.00 | -12.00 | 51.268 | 17.827 | 0.019 | 287.2 | 281.2 | 286.4 | 273.0 |
| 27 | 457.20 | 0.00 | -10.00 | 51.235 | 18.684 | 0.019 | 287.3 | 281.2 | 286.5 | 272.6 |
| 28 | 457.20 | 0.00 | -8.00 | 51.231 | 19.395 | 0.021 | 287.4 | 281.2 | 286.6 | 272.2 |
| 29 | 457.20 | 0.00 | -6.00 | 51.207 | 20.132 | 0.020 | 287.4 | 281.2 | 286.6 | 271.7 |
| 30 | 457.20 | 0.00 | -4.00 | 51.203 | 20.542 | 0.019 | 287.4 | 281.2 | 286.6 | 271.4 |
| 31 | 457.20 | 0.00 | -2.00 | 51.218 | 21.095 | 0.017 | 287.4 | 281.1 | 286.6 | 271.1 |
| 32 | 457.20 | 0.00 | 0.00 | 51.215 | 20.732 | 0.014 | 287.3 | 281.2 | 286.6 | 271.3 |
| 33 | 457.20 | 0.00 | 2.00 | 51.229 | 20.721 | 0.016 | 287.3 | 281.1 | 286.6 | 271.3 |
| 34 | 457.20 | 0.00 | 4.00 | 51.231 | 20.428 | 0.017 | 287.3 | 281.1 | 286.6 | 271.5 |
| 35 | 457.20 | 0.00 | 6.00 | 51.186 | 19.670 | 0.015 | 287.3 | 281.1 | 286.6 | 272.0 |
| 36 | 457.20 | 0.00 | 8.00 | 51.150 | 19.055 | 0.013 | 287.4 | 281.1 | 286.6 | 272.4 |
| 37 | 457.20 | 0.00 | 10.00 | 51.167 | 18.166 | 0.014 | 287.4 | 281.1 | 286.6 | 273.0 |

File : TAB256T

12-JAN-89
12-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG VII(A)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.442 kPa

Mean gauged plenum pressure : 51.313 kPa
RMS gauged plenum pressure : 0.096 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.360 | 0.193 | 0.019 | 284.1 | 281.1 | 284.1 | 283.9 |
| 3 | 457.20 | -105.00 | 0.00 | 51.241 | 0.248 | 0.018 | 284.2 | 281.1 | 284.1 | 283.9 |
| 4 | 457.20 | -100.00 | 0.00 | 51.186 | 0.380 | 0.017 | 284.1 | 281.1 | 284.1 | 283.8 |
| 5 | 457.20 | -95.00 | 0.00 | 51.218 | 0.778 | 0.016 | 284.1 | 281.1 | 284.1 | 283.5 |
| 6 | 457.20 | -90.00 | 0.00 | 51.403 | 1.217 | 0.016 | 284.1 | 281.0 | 284.1 | 283.1 |
| 7 | 457.20 | -85.00 | 0.00 | 51.557 | 1.873 | 0.016 | 284.1 | 281.1 | 284.1 | 282.6 |
| 8 | 457.20 | -80.00 | 0.00 | 51.570 | 2.277 | 0.017 | 284.1 | 281.1 | 284.1 | 282.2 |
| 9 | 457.20 | -75.00 | 0.00 | 51.484 | 3.325 | 0.015 | 284.0 | 281.1 | 284.1 | 281.4 |
| 10 | 457.20 | -70.00 | 0.00 | 51.267 | 4.011 | 0.016 | 284.1 | 281.1 | 284.1 | 280.9 |
| 11 | 457.20 | -65.00 | 0.00 | 51.276 | 5.192 | 0.014 | 284.1 | 281.1 | 284.1 | 280.0 |
| 12 | 457.20 | -60.00 | 0.00 | 51.274 | 5.868 | 0.015 | 284.1 | 281.1 | 284.1 | 279.4 |
| 13 | 457.20 | -55.00 | 0.00 | 51.249 | 6.637 | 0.013 | 284.1 | 281.1 | 284.1 | 278.8 |
| 14 | 457.20 | -50.00 | 0.00 | 51.201 | 7.417 | 0.014 | 284.1 | 281.1 | 284.1 | 278.3 |
| 15 | 457.20 | -45.00 | 0.00 | 51.124 | 7.827 | 0.015 | 284.1 | 281.0 | 284.1 | 277.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.113 | 8.092 | 0.015 | 284.1 | 281.1 | 284.1 | 277.7 |
| 17 | 457.20 | -35.00 | 0.00 | 51.242 | 8.576 | 0.013 | 284.1 | 281.1 | 284.0 | 277.3 |
| 18 | 457.20 | -30.00 | 0.00 | 51.173 | 9.365 | 0.017 | 284.1 | 281.0 | 284.1 | 276.8 |
| 19 | 457.20 | -25.00 | 0.00 | 51.179 | 10.569 | 0.015 | 284.1 | 281.1 | 284.0 | 275.8 |
| 20 | 457.20 | -20.00 | 0.00 | 51.194 | 12.514 | 0.013 | 284.1 | 281.1 | 284.0 | 274.4 |
| 21 | 457.20 | -15.00 | 0.00 | 51.263 | 14.988 | 0.013 | 284.1 | 281.1 | 284.0 | 272.7 |
| 22 | 457.20 | -10.00 | 0.00 | 51.320 | 17.286 | 0.013 | 284.1 | 281.1 | 284.0 | 271.1 |
| 23 | 457.20 | -5.00 | 0.00 | 51.368 | 19.678 | 0.012 | 284.1 | 281.1 | 284.0 | 269.6 |
| 24 | 457.20 | 0.00 | 0.00 | 51.353 | 20.886 | 0.014 | 284.1 | 281.1 | 284.0 | 268.8 |
| 25 | 457.20 | 5.00 | 0.00 | 51.357 | 20.175 | 0.012 | 284.0 | 281.1 | 284.0 | 269.2 |
| 26 | 457.20 | 10.00 | 0.00 | 51.358 | 18.431 | 0.012 | 284.1 | 281.1 | 284.0 | 270.4 |
| 27 | 457.20 | 15.00 | 0.00 | 51.366 | 15.610 | 0.012 | 284.0 | 281.1 | 284.0 | 272.3 |
| 28 | 457.20 | 20.00 | 0.00 | 51.365 | 13.227 | 0.012 | 284.1 | 281.1 | 284.0 | 273.9 |
| 29 | 457.20 | 25.00 | 0.00 | 51.353 | 11.146 | 0.013 | 284.0 | 281.1 | 284.0 | 275.4 |
| 30 | 457.20 | 30.00 | 0.00 | 51.358 | 9.789 | 0.012 | 284.1 | 281.1 | 284.0 | 276.4 |
| 31 | 457.20 | 35.00 | 0.00 | 51.359 | 8.568 | 0.013 | 284.0 | 281.1 | 284.0 | 277.3 |
| 32 | 457.20 | 40.00 | 0.00 | 51.353 | 7.610 | 0.013 | 284.1 | 281.1 | 284.0 | 278.0 |
| 33 | 457.20 | 45.00 | 0.00 | 51.345 | 6.884 | 0.013 | 284.0 | 281.0 | 284.0 | 278.6 |
| 34 | 457.20 | 50.00 | 0.00 | 51.347 | 6.038 | 0.014 | 284.1 | 281.1 | 284.0 | 279.2 |
| 35 | 457.20 | 55.00 | 0.00 | 51.351 | 5.073 | 0.013 | 284.0 | 281.1 | 284.0 | 279.9 |
| 36 | 457.20 | 60.00 | 0.00 | 51.343 | 4.252 | 0.014 | 284.0 | 281.1 | 284.0 | 280.6 |
| 37 | 457.20 | 65.00 | 0.00 | 51.342 | 3.449 | 0.015 | 284.0 | 281.1 | 284.0 | 281.2 |
| 38 | 457.20 | 70.00 | 0.00 | 51.336 | 2.735 | 0.013 | 284.0 | 281.1 | 284.0 | 281.8 |
| 39 | 457.20 | 75.00 | 0.00 | 51.326 | 2.194 | 0.013 | 284.1 | 281.0 | 284.0 | 282.2 |
| 40 | 457.20 | 80.00 | 0.00 | 51.335 | 1.524 | 0.014 | 284.0 | 281.1 | 284.0 | 282.8 |
| 41 | 457.20 | 85.00 | 0.00 | 51.353 | 1.131 | 0.013 | 284.1 | 281.1 | 284.0 | 283.1 |
| 42 | 457.20 | 90.00 | 0.00 | 51.317 | 0.881 | 0.013 | 284.0 | 281.1 | 284.0 | 283.3 |
| 43 | 457.20 | 95.00 | 0.00 | 51.329 | 0.454 | 0.013 | 284.0 | 281.1 | 284.0 | 283.6 |
| 44 | 457.20 | 100.00 | 0.00 | 51.334 | 0.265 | 0.013 | 284.0 | 281.1 | 284.0 | 283.8 |
| 45 | 457.20 | 105.00 | 0.00 | 51.327 | 0.108 | 0.013 | 284.0 | 281.0 | 284.0 | 283.9 |
| 46 | 457.20 | 110.00 | 0.00 | 51.333 | 0.088 | 0.014 | 284.0 | 281.1 | 284.0 | 283.9 |

File : TAB268T

17-JAN-89
18-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
CONFIG VII(A)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.815 kPa

Mean gauged plenum pressure : 51.292 kPa
RMS gauged plenum pressure : 0.231 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.019 | 0.000 | 0.002 | 276.9 | 277.8 | 276.1 | 276.1 |
| 3 | 457.20 | -105.00 | 0.00 | 51.159 | 0.035 | 0.003 | 276.9 | 277.8 | 276.3 | 276.3 |
| 4 | 457.20 | -100.00 | 0.00 | 51.244 | 0.146 | 0.003 | 276.9 | 277.9 | 276.3 | 276.2 |
| 5 | 457.20 | -95.00 | 0.00 | 51.384 | 0.350 | 0.003 | 277.0 | 278.0 | 276.3 | 276.0 |
| 6 | 457.20 | -90.00 | 0.00 | 51.398 | 0.668 | 0.004 | 277.0 | 278.0 | 276.4 | 275.9 |
| 7 | 457.20 | -85.00 | 0.00 | 51.276 | 1.090 | 0.004 | 277.0 | 278.0 | 276.4 | 275.5 |
| 8 | 457.20 | -80.00 | 0.00 | 51.061 | 1.556 | 0.004 | 277.0 | 277.9 | 276.5 | 275.3 |
| 9 | 457.20 | -75.00 | 0.00 | 51.252 | 2.520 | 0.004 | 277.0 | 277.9 | 276.5 | 274.5 |
| 10 | 457.20 | -70.00 | 0.00 | 51.114 | 2.997 | 0.005 | 277.0 | 277.9 | 276.4 | 274.0 |
| 11 | 457.20 | -65.00 | 0.00 | 51.191 | 4.154 | 0.004 | 277.1 | 277.8 | 276.5 | 273.3 |
| 12 | 457.20 | -60.00 | 0.00 | 51.117 | 5.127 | 0.005 | 277.0 | 277.9 | 276.5 | 272.5 |
| 13 | 457.20 | -55.00 | 0.00 | 51.226 | 5.755 | 0.005 | 277.1 | 277.9 | 276.4 | 272.0 |
| 14 | 457.20 | -50.00 | 0.00 | 51.802 | 6.428 | 0.005 | 277.2 | 277.9 | 276.5 | 271.6 |
| 15 | 457.20 | -45.00 | 0.00 | 51.559 | 7.018 | 0.006 | 277.2 | 278.1 | 276.6 | 271.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.408 | 7.534 | 0.006 | 277.2 | 278.1 | 276.6 | 270.8 |
| 17 | 457.20 | -35.00 | 0.00 | 51.242 | 8.263 | 0.006 | 277.3 | 278.0 | 276.6 | 270.3 |
| 18 | 457.20 | -30.00 | 0.00 | 51.196 | 9.059 | 0.006 | 277.3 | 278.0 | 276.6 | 269.7 |
| 19 | 457.20 | -25.00 | 0.00 | 51.219 | 10.444 | 0.007 | 277.3 | 278.0 | 276.7 | 268.9 |
| 20 | 457.20 | -20.00 | 0.00 | 50.998 | 12.173 | 0.007 | 277.3 | 278.0 | 276.7 | 267.6 |
| 21 | 457.20 | -15.00 | 0.00 | 51.269 | 14.736 | 0.007 | 277.4 | 278.0 | 276.7 | 265.9 |
| 22 | 457.20 | -10.00 | 0.00 | 51.190 | 17.377 | 0.008 | 277.4 | 278.0 | 276.7 | 264.2 |
| 23 | 457.20 | -5.00 | 0.00 | 52.001 | 20.138 | 0.008 | 277.5 | 278.1 | 276.7 | 262.4 |
| 24 | 457.20 | 0.00 | 0.00 | 51.360 | 20.754 | 0.008 | 277.5 | 278.1 | 276.7 | 262.0 |
| 25 | 457.20 | 5.00 | 0.00 | 51.203 | 19.731 | 0.008 | 277.5 | 278.2 | 276.8 | 262.7 |
| 26 | 457.20 | 10.00 | 0.00 | 51.056 | 17.534 | 0.009 | 277.6 | 278.1 | 276.8 | 264.2 |
| 27 | 457.20 | 15.00 | 0.00 | 51.304 | 14.758 | 0.009 | 277.6 | 278.1 | 276.8 | 266.0 |
| 28 | 457.20 | 20.00 | 0.00 | 51.179 | 12.346 | 0.009 | 277.7 | 278.0 | 276.9 | 267.7 |
| 29 | 457.20 | 25.00 | 0.00 | 51.270 | 10.544 | 0.009 | 277.7 | 278.0 | 276.9 | 269.0 |
| 30 | 457.20 | 30.00 | 0.00 | 51.201 | 8.988 | 0.010 | 277.7 | 278.1 | 276.9 | 270.1 |
| 31 | 457.20 | 35.00 | 0.00 | 51.380 | 7.959 | 0.010 | 277.7 | 278.1 | 276.9 | 270.8 |
| 32 | 457.20 | 40.00 | 0.00 | 51.283 | 6.756 | 0.010 | 277.8 | 278.2 | 276.9 | 271.7 |
| 33 | 457.20 | 45.00 | 0.00 | 51.340 | 6.059 | 0.010 | 277.8 | 278.2 | 276.9 | 272.2 |
| 34 | 457.20 | 50.00 | 0.00 | 51.308 | 5.506 | 0.010 | 277.8 | 278.3 | 277.0 | 272.7 |
| 35 | 457.20 | 55.00 | 0.00 | 51.268 | 4.488 | 0.010 | 277.8 | 278.2 | 277.0 | 273.5 |
| 36 | 457.20 | 60.00 | 0.00 | 51.170 | 3.405 | 0.011 | 277.8 | 278.2 | 277.0 | 274.3 |
| 37 | 457.20 | 65.00 | 0.00 | 51.404 | 2.813 | 0.011 | 277.9 | 278.1 | 277.1 | 274.9 |
| 38 | 457.20 | 70.00 | 0.00 | 51.379 | 2.192 | 0.011 | 278.0 | 278.1 | 277.1 | 275.4 |
| 39 | 457.20 | 75.00 | 0.00 | 51.455 | 1.531 | 0.011 | 278.0 | 278.1 | 277.2 | 276.0 |
| 40 | 457.20 | 80.00 | 0.00 | 51.411 | 1.266 | 0.012 | 278.1 | 278.2 | 277.2 | 276.2 |
| 41 | 457.20 | 85.00 | 0.00 | 51.527 | 0.866 | 0.012 | 278.1 | 278.2 | 277.2 | 276.5 |
| 42 | 457.20 | 90.00 | 0.00 | 51.420 | 0.774 | 0.012 | 278.1 | 278.4 | 277.2 | 276.6 |
| 43 | 457.20 | 95.00 | 0.00 | 51.444 | 0.423 | 0.013 | 278.2 | 278.3 | 277.2 | 276.9 |
| 44 | 457.20 | 100.00 | 0.00 | 51.232 | 0.219 | 0.014 | 278.2 | 278.3 | 277.3 | 277.1 |
| 45 | 457.20 | 105.00 | 0.00 | 51.294 | 0.067 | 0.016 | 278.3 | 278.2 | 277.4 | 277.3 |
| 46 | 457.20 | 110.00 | 0.00 | 51.206 | 0.015 | 0.021 | 278.3 | 278.2 | 277.4 | 277.4 |

File : TAB248T

3-JAN-89
3-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, Config VII(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.156 kPa

Mean gauged plenum pressure : 50.782 kPa
RMS gauged plenum pressure : 0.185 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.347 | 0.307 | 0.014 | 286.8 | 280.9 | 286.7 | 286.4 |
| 3 | 457.20 | -105.00 | 0.00 | 50.845 | 0.551 | 0.013 | 286.8 | 281.0 | 286.7 | 286.2 |
| 4 | 457.20 | -100.00 | 0.00 | 50.987 | 0.866 | 0.013 | 286.8 | 280.9 | 286.7 | 286.0 |
| 5 | 457.20 | -95.00 | 0.00 | 50.957 | 1.373 | 0.013 | 286.7 | 280.9 | 286.7 | 285.6 |
| 6 | 457.20 | -90.00 | 0.00 | 50.826 | 1.937 | 0.013 | 286.8 | 280.9 | 286.7 | 285.1 |
| 7 | 457.20 | -85.00 | 0.00 | 50.587 | 2.844 | 0.013 | 286.8 | 280.9 | 286.7 | 284.3 |
| 8 | 457.20 | -80.00 | 0.00 | 50.380 | 3.197 | 0.014 | 286.8 | 280.9 | 286.7 | 284.1 |
| 9 | 457.20 | -75.00 | 0.00 | 50.249 | 4.297 | 0.012 | 286.7 | 280.9 | 286.8 | 283.3 |
| 10 | 457.20 | -70.00 | 0.00 | 50.605 | 5.026 | 0.013 | 286.8 | 281.0 | 286.8 | 282.7 |
| 11 | 457.20 | -65.00 | 0.00 | 50.619 | 6.087 | 0.013 | 286.8 | 281.0 | 286.8 | 281.9 |
| 12 | 457.20 | -60.00 | 0.00 | 50.818 | 6.720 | 0.013 | 286.7 | 280.9 | 286.7 | 281.3 |
| 13 | 457.20 | -55.00 | 0.00 | 50.845 | 7.363 | 0.013 | 286.8 | 281.0 | 286.8 | 280.9 |
| 14 | 457.20 | -50.00 | 0.00 | 50.910 | 7.576 | 0.013 | 286.7 | 280.9 | 286.7 | 280.6 |
| 15 | 457.20 | -45.00 | 0.00 | 50.874 | 7.381 | 0.013 | 286.8 | 281.0 | 286.7 | 280.8 |
| 16 | 457.20 | -40.00 | 0.00 | 50.685 | 7.371 | 0.014 | 286.8 | 281.0 | 286.8 | 280.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 50.676 | 7.635 | 0.012 | 286.8 | 280.9 | 286.7 | 280.6 |
| 18 | 457.20 | -30.00 | 0.00 | 50.542 | 7.853 | 0.013 | 286.8 | 280.9 | 286.7 | 280.4 |
| 19 | 457.20 | -25.00 | 0.00 | 50.310 | 8.840 | 0.012 | 286.7 | 280.9 | 286.7 | 279.6 |
| 20 | 457.20 | -20.00 | 0.00 | 50.754 | 10.141 | 0.012 | 286.7 | 280.9 | 286.7 | 278.7 |
| 21 | 457.20 | -15.00 | 0.00 | 50.860 | 11.804 | 0.012 | 286.7 | 280.9 | 286.7 | 277.4 |
| 22 | 457.20 | -10.00 | 0.00 | 50.805 | 14.349 | 0.012 | 286.7 | 280.9 | 286.7 | 275.6 |
| 23 | 457.20 | -5.00 | 0.00 | 50.816 | 15.678 | 0.013 | 286.7 | 280.9 | 286.7 | 274.7 |
| 24 | 457.20 | 0.00 | 0.00 | 50.806 | 16.629 | 0.012 | 286.7 | 280.9 | 286.6 | 273.9 |
| 25 | 457.20 | 5.00 | 0.00 | 50.817 | 16.195 | 0.012 | 286.6 | 280.9 | 286.6 | 274.2 |
| 26 | 457.20 | 10.00 | 0.00 | 50.873 | 14.333 | 0.012 | 286.7 | 280.9 | 286.6 | 275.5 |
| 27 | 457.20 | 15.00 | 0.00 | 51.001 | 12.635 | 0.014 | 286.7 | 280.9 | 286.6 | 276.7 |
| 28 | 457.20 | 20.00 | 0.00 | 51.058 | 10.452 | 0.013 | 286.7 | 281.0 | 286.6 | 278.3 |
| 29 | 457.20 | 25.00 | 0.00 | 50.826 | 8.939 | 0.012 | 286.7 | 280.9 | 286.6 | 279.5 |
| 30 | 457.20 | 30.00 | 0.00 | 50.855 | 8.067 | 0.013 | 286.7 | 280.9 | 286.6 | 280.1 |
| 31 | 457.20 | 35.00 | 0.00 | 50.877 | 7.558 | 0.013 | 286.7 | 280.9 | 286.6 | 280.5 |
| 32 | 457.20 | 40.00 | 0.00 | 50.869 | 7.300 | 0.013 | 286.7 | 280.9 | 286.6 | 280.7 |
| 33 | 457.20 | 45.00 | 0.00 | 50.864 | 7.119 | 0.013 | 286.7 | 280.9 | 286.6 | 280.9 |
| 34 | 457.20 | 50.00 | 0.00 | 50.870 | 6.808 | 0.012 | 286.7 | 280.9 | 286.6 | 281.1 |
| 35 | 457.20 | 55.00 | 0.00 | 50.871 | 6.433 | 0.012 | 286.7 | 280.9 | 286.6 | 281.4 |
| 36 | 457.20 | 60.00 | 0.00 | 50.870 | 5.860 | 0.012 | 286.7 | 280.9 | 286.6 | 281.8 |
| 37 | 457.20 | 65.00 | 0.00 | 50.848 | 5.306 | 0.013 | 286.7 | 281.0 | 286.6 | 282.3 |
| 38 | 457.20 | 70.00 | 0.00 | 50.809 | 4.339 | 0.013 | 286.7 | 280.9 | 286.6 | 283.0 |
| 39 | 457.20 | 75.00 | 0.00 | 50.795 | 3.507 | 0.014 | 286.7 | 280.9 | 286.6 | 283.7 |
| 40 | 457.20 | 80.00 | 0.00 | 50.751 | 2.943 | 0.012 | 286.6 | 280.9 | 286.6 | 284.2 |
| 41 | 457.20 | 85.00 | 0.00 | 50.730 | 2.070 | 0.014 | 286.6 | 280.9 | 286.6 | 284.9 |
| 42 | 457.20 | 90.00 | 0.00 | 50.712 | 1.549 | 0.015 | 286.6 | 280.9 | 286.6 | 285.3 |
| 43 | 457.20 | 95.00 | 0.00 | 50.704 | 1.134 | 0.013 | 286.7 | 280.9 | 286.6 | 285.7 |
| 44 | 457.20 | 100.00 | 0.00 | 50.693 | 0.720 | 0.014 | 286.7 | 281.0 | 286.6 | 286.0 |
| 45 | 457.20 | 105.00 | 0.00 | 50.685 | 0.400 | 0.013 | 286.6 | 280.9 | 286.6 | 286.3 |
| 46 | 457.20 | 110.00 | 0.00 | 50.697 | 0.197 | 0.013 | 286.7 | 281.0 | 286.6 | 286.4 |

File : TAB249T

3-JAN-89
3-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, Config VII(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.189 kPa

Mean gauged plenum pressure : 50.748 kPa
RMS gauged plenum pressure : 0.061 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 50.831 | 1.346 | 0.016 | 286.8 | 281.0 | 286.7 | 285.6 |
| 3 | 457.20 | 0.00 | -58.00 | 50.836 | 1.669 | 0.016 | 286.8 | 281.0 | 286.7 | 285.3 |
| 4 | 457.20 | 0.00 | -56.00 | 50.854 | 1.873 | 0.014 | 286.8 | 281.0 | 286.7 | 285.1 |
| 5 | 457.20 | 0.00 | -54.00 | 50.850 | 2.187 | 0.014 | 286.9 | 281.0 | 286.7 | 284.9 |
| 6 | 457.20 | 0.00 | -52.00 | 50.853 | 2.541 | 0.015 | 286.8 | 281.0 | 286.7 | 284.6 |
| 7 | 457.20 | 0.00 | -50.00 | 50.837 | 2.947 | 0.014 | 286.9 | 281.1 | 286.8 | 284.4 |
| 8 | 457.20 | 0.00 | -48.00 | 50.826 | 3.402 | 0.017 | 286.9 | 281.0 | 286.8 | 284.0 |
| 9 | 457.20 | 0.00 | -46.00 | 50.803 | 3.835 | 0.018 | 286.9 | 281.0 | 286.8 | 283.6 |
| 10 | 457.20 | 0.00 | -44.00 | 50.732 | 4.292 | 0.015 | 286.8 | 281.0 | 286.8 | 283.3 |
| 11 | 457.20 | 0.00 | -42.00 | 50.645 | 4.871 | 0.017 | 286.8 | 281.0 | 286.8 | 282.8 |
| 12 | 457.20 | 0.00 | -40.00 | 50.638 | 5.512 | 0.017 | 286.9 | 281.1 | 286.8 | 282.3 |
| 13 | 457.20 | 0.00 | -38.00 | 50.639 | 6.064 | 0.017 | 286.8 | 281.0 | 286.8 | 281.9 |
| 14 | 457.20 | 0.00 | -36.00 | 50.647 | 6.487 | 0.016 | 286.9 | 281.0 | 286.8 | 281.5 |
| 15 | 457.20 | 0.00 | -34.00 | 50.650 | 7.294 | 0.018 | 286.9 | 281.0 | 286.8 | 280.9 |
| 16 | 457.20 | 0.00 | -32.00 | 50.677 | 7.808 | 0.016 | 286.9 | 281.0 | 286.8 | 280.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -30.00 | 50.690 | 8.542 | 0.014 | 286.8 | 281.0 | 286.8 | 280.0 |
| 18 | 457.20 | 0.00 | -28.00 | 50.717 | 9.185 | 0.017 | 286.8 | 281.0 | 286.8 | 279.5 |
| 19 | 457.20 | 0.00 | -26.00 | 50.721 | 10.040 | 0.018 | 286.8 | 281.0 | 286.8 | 278.8 |
| 20 | 457.20 | 0.00 | -24.00 | 50.739 | 10.724 | 0.014 | 286.8 | 281.0 | 286.8 | 278.3 |
| 21 | 457.20 | 0.00 | -22.00 | 50.738 | 11.487 | 0.017 | 286.8 | 281.0 | 286.8 | 277.8 |
| 22 | 457.20 | 0.00 | -20.00 | 50.742 | 12.128 | 0.017 | 286.8 | 281.0 | 286.8 | 277.3 |
| 23 | 457.20 | 0.00 | -18.00 | 50.741 | 12.788 | 0.014 | 286.8 | 281.0 | 286.8 | 276.8 |
| 24 | 457.20 | 0.00 | -16.00 | 50.730 | 13.506 | 0.016 | 286.8 | 281.0 | 286.8 | 276.3 |
| 25 | 457.20 | 0.00 | -14.00 | 50.730 | 14.049 | 0.017 | 286.8 | 281.0 | 286.8 | 275.9 |
| 26 | 457.20 | 0.00 | -12.00 | 50.725 | 14.601 | 0.015 | 286.9 | 281.0 | 286.8 | 275.5 |
| 27 | 457.20 | 0.00 | -10.00 | 50.732 | 15.240 | 0.015 | 286.9 | 281.1 | 286.8 | 275.1 |
| 28 | 457.20 | 0.00 | -8.00 | 50.750 | 15.425 | 0.016 | 286.9 | 281.1 | 286.8 | 275.0 |
| 29 | 457.20 | 0.00 | -6.00 | 50.738 | 16.010 | 0.014 | 286.9 | 281.0 | 286.8 | 274.5 |
| 30 | 457.20 | 0.00 | -4.00 | 50.758 | 16.282 | 0.015 | 286.9 | 281.0 | 286.8 | 274.4 |
| 31 | 457.20 | 0.00 | -2.00 | 50.750 | 16.568 | 0.019 | 286.9 | 281.0 | 286.8 | 274.2 |
| 32 | 457.20 | 0.00 | 0.00 | 50.758 | 16.576 | 0.017 | 286.9 | 281.0 | 286.8 | 274.2 |
| 33 | 457.20 | 0.00 | 2.00 | 50.782 | 16.714 | 0.014 | 286.9 | 281.0 | 286.8 | 274.1 |
| 34 | 457.20 | 0.00 | 4.00 | 50.761 | 16.566 | 0.015 | 286.9 | 281.1 | 286.8 | 274.2 |
| 35 | 457.20 | 0.00 | 6.00 | 50.765 | 16.367 | 0.015 | 286.9 | 281.0 | 286.8 | 274.3 |
| 36 | 457.20 | 0.00 | 8.00 | 50.741 | 16.222 | 0.018 | 286.8 | 281.0 | 286.7 | 274.3 |
| 37 | 457.20 | 0.00 | 10.00 | 50.757 | 15.591 | 0.019 | 286.9 | 281.0 | 286.7 | 274.7 |

File : TAB261T 13-JAN-89
13-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG VII(B)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.883 kPa

Mean gauged plenum pressure : 51.459 kPa
RMS gauged plenum pressure : 0.163 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.429 | 0.247 | 0.013 | 282.2 | 280.2 | 281.5 | 281.3 |
| 3 | 457.20 | -105.00 | 0.00 | 51.143 | 0.569 | 0.015 | 282.1 | 280.2 | 281.3 | 280.8 |
| 4 | 457.20 | -100.00 | 0.00 | 51.311 | 0.545 | 0.019 | 282.1 | 280.2 | 281.2 | 280.8 |
| 5 | 457.20 | -95.00 | 0.00 | 51.464 | 1.114 | 0.020 | 281.9 | 280.3 | 281.0 | 280.1 |
| 6 | 457.20 | -90.00 | 0.00 | 51.229 | 1.719 | 0.019 | 281.7 | 280.3 | 280.8 | 279.4 |
| 7 | 457.20 | -85.00 | 0.00 | 51.432 | 2.180 | 0.019 | 281.6 | 280.3 | 280.8 | 279.1 |
| 8 | 457.20 | -80.00 | 0.00 | 51.473 | 2.875 | 0.018 | 281.8 | 280.3 | 280.9 | 278.6 |
| 9 | 457.20 | -75.00 | 0.00 | 51.460 | 3.964 | 0.022 | 281.7 | 280.4 | 280.8 | 277.7 |
| 10 | 457.20 | -70.00 | 0.00 | 51.592 | 4.370 | 0.022 | 281.7 | 280.4 | 280.8 | 277.3 |
| 11 | 457.20 | -65.00 | 0.00 | 51.406 | 5.302 | 0.022 | 281.7 | 280.4 | 281.4 | 277.2 |
| 12 | 457.20 | -60.00 | 0.00 | 51.341 | 5.875 | 0.020 | 281.8 | 280.4 | 281.6 | 277.0 |
| 13 | 457.20 | -55.00 | 0.00 | 51.487 | 6.652 | 0.024 | 281.8 | 280.4 | 281.6 | 276.4 |
| 14 | 457.20 | -50.00 | 0.00 | 51.650 | 6.722 | 0.026 | 281.7 | 280.5 | 281.6 | 276.3 |
| 15 | 457.20 | -45.00 | 0.00 | 51.426 | 6.869 | 0.026 | 281.6 | 280.4 | 281.5 | 276.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.471 | 6.961 | 0.027 | 281.7 | 280.4 | 281.5 | 276.1 |
| 17 | 457.20 | -35.00 | 0.00 | 51.384 | 7.260 | 0.030 | 281.7 | 280.5 | 281.5 | 275.8 |
| 18 | 457.20 | -30.00 | 0.00 | 51.469 | 7.907 | 0.026 | 281.7 | 280.5 | 281.5 | 275.4 |
| 19 | 457.20 | -25.00 | 0.00 | 51.503 | 9.087 | 0.026 | 281.7 | 280.5 | 281.5 | 274.5 |
| 20 | 457.20 | -20.00 | 0.00 | 51.526 | 10.432 | 0.028 | 281.8 | 280.5 | 281.5 | 273.5 |
| 21 | 457.20 | -15.00 | 0.00 | 51.491 | 12.789 | 0.030 | 281.8 | 280.5 | 281.6 | 272.0 |
| 22 | 457.20 | -10.00 | 0.00 | 51.557 | 14.690 | 0.029 | 281.8 | 280.5 | 281.6 | 270.7 |
| 23 | 457.20 | -5.00 | 0.00 | 51.635 | 16.330 | 0.034 | 281.7 | 280.5 | 281.5 | 269.4 |
| 24 | 457.20 | 0.00 | 0.00 | 51.348 | 16.958 | 0.036 | 281.6 | 280.5 | 281.4 | 268.9 |
| 25 | 457.20 | 5.00 | 0.00 | 51.258 | 16.195 | 0.036 | 281.7 | 280.4 | 281.4 | 269.4 |
| 26 | 457.20 | 10.00 | 0.00 | 51.675 | 14.590 | 0.031 | 281.6 | 280.4 | 281.4 | 270.5 |
| 27 | 457.20 | 15.00 | 0.00 | 51.688 | 12.516 | 0.030 | 281.8 | 280.4 | 281.5 | 272.1 |
| 28 | 457.20 | 20.00 | 0.00 | 51.616 | 10.329 | 0.027 | 282.0 | 280.5 | 281.6 | 273.7 |
| 29 | 457.20 | 25.00 | 0.00 | 51.515 | 8.804 | 0.032 | 281.9 | 280.5 | 281.6 | 274.8 |
| 30 | 457.20 | 30.00 | 0.00 | 51.491 | 7.556 | 0.028 | 282.1 | 280.5 | 281.6 | 275.7 |
| 31 | 457.20 | 35.00 | 0.00 | 51.471 | 7.020 | 0.025 | 282.2 | 280.5 | 281.7 | 276.2 |
| 32 | 457.20 | 40.00 | 0.00 | 51.565 | 6.414 | 0.031 | 282.2 | 280.5 | 281.7 | 276.7 |
| 33 | 457.20 | 45.00 | 0.00 | 51.470 | 5.995 | 0.031 | 282.2 | 280.5 | 281.7 | 277.0 |
| 34 | 457.20 | 50.00 | 0.00 | 51.557 | 5.668 | 0.029 | 282.1 | 280.5 | 281.7 | 277.2 |
| 35 | 457.20 | 55.00 | 0.00 | 51.586 | 4.894 | 0.030 | 282.2 | 280.5 | 281.3 | 277.4 |
| 36 | 457.20 | 60.00 | 0.00 | 51.481 | 4.190 | 0.027 | 282.0 | 280.5 | 281.0 | 277.7 |
| 37 | 457.20 | 65.00 | 0.00 | 51.380 | 3.444 | 0.027 | 282.0 | 280.5 | 280.9 | 278.2 |
| 38 | 457.20 | 70.00 | 0.00 | 51.452 | 2.999 | 0.028 | 282.1 | 280.6 | 281.2 | 278.8 |
| 39 | 457.20 | 75.00 | 0.00 | 51.402 | 2.418 | 0.022 | 282.3 | 280.6 | 281.2 | 279.3 |
| 40 | 457.20 | 80.00 | 0.00 | 51.424 | 1.976 | 0.023 | 282.5 | 280.6 | 281.1 | 279.5 |
| 41 | 457.20 | 85.00 | 0.00 | 51.350 | 1.318 | 0.024 | 282.5 | 280.5 | 281.3 | 280.2 |
| 42 | 457.20 | 90.00 | 0.00 | 51.499 | 0.989 | 0.021 | 282.4 | 280.5 | 281.3 | 280.5 |
| 43 | 457.20 | 95.00 | 0.00 | 51.217 | 0.628 | 0.028 | 282.1 | 280.5 | 281.3 | 280.8 |
| 44 | 457.20 | 100.00 | 0.00 | 51.368 | 0.426 | 0.019 | 282.2 | 280.5 | 281.4 | 281.1 |
| 45 | 457.20 | 105.00 | 0.00 | 51.297 | 0.229 | 0.021 | 282.2 | 280.5 | 281.3 | 281.1 |
| 46 | 457.20 | 110.00 | 0.00 | 51.471 | 0.118 | 0.016 | 282.2 | 280.5 | 281.6 | 281.5 |

File : TAB272T 19-JAN-89
19-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
CONFIG VII(B)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.578 kPa

Mean gauged plenum pressure : 51.338 kPa
RMS gauged plenum pressure : 0.164 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.131 | 0.194 | 0.011 | 282.0 | 279.4 | 281.6 | 281.4 |
| 3 | 457.20 | -105.00 | 0.00 | 51.093 | 0.359 | 0.011 | 282.1 | 279.5 | 281.8 | 281.5 |
| 4 | 457.20 | -100.00 | 0.00 | 51.507 | 0.667 | 0.011 | 282.1 | 279.5 | 281.8 | 281.3 |
| 5 | 457.20 | -95.00 | 0.00 | 51.695 | 0.937 | 0.011 | 282.2 | 279.6 | 281.9 | 281.1 |
| 6 | 457.20 | -90.00 | 0.00 | 51.609 | 1.297 | 0.011 | 282.2 | 279.6 | 281.9 | 280.8 |
| 7 | 457.20 | -85.00 | 0.00 | 51.534 | 1.959 | 0.011 | 282.2 | 279.7 | 281.9 | 280.3 |
| 8 | 457.20 | -80.00 | 0.00 | 51.385 | 2.256 | 0.011 | 282.2 | 279.7 | 281.9 | 280.1 |
| 9 | 457.20 | -75.00 | 0.00 | 51.216 | 2.775 | 0.011 | 282.3 | 279.7 | 282.0 | 279.8 |
| 10 | 457.20 | -70.00 | 0.00 | 51.242 | 3.928 | 0.012 | 282.2 | 279.7 | 282.0 | 278.9 |
| 11 | 457.20 | -65.00 | 0.00 | 51.291 | 4.729 | 0.011 | 282.2 | 279.7 | 282.1 | 278.3 |
| 12 | 457.20 | -60.00 | 0.00 | 51.209 | 5.629 | 0.012 | 282.2 | 279.7 | 282.0 | 277.6 |
| 13 | 457.20 | -55.00 | 0.00 | 51.243 | 6.165 | 0.012 | 282.1 | 279.7 | 281.9 | 277.0 |
| 14 | 457.20 | -50.00 | 0.00 | 51.428 | 6.110 | 0.012 | 282.1 | 279.8 | 281.9 | 277.1 |
| 15 | 457.20 | -45.00 | 0.00 | 51.362 | 6.439 | 0.011 | 282.1 | 279.8 | 281.9 | 276.8 |



C-3

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.404 | 6.780 | 0.012 | 282.1 | 279.8 | 281.9 | 276.6 |
| 17 | 457.20 | -35.00 | 0.00 | 51.361 | 7.258 | 0.011 | 282.1 | 279.8 | 281.9 | 276.2 |
| 18 | 457.20 | -30.00 | 0.00 | 51.226 | 7.974 | 0.012 | 282.1 | 279.8 | 281.9 | 275.7 |
| 19 | 457.20 | -25.00 | 0.00 | 51.318 | 9.280 | 0.011 | 282.2 | 279.8 | 281.9 | 274.7 |
| 20 | 457.20 | -20.00 | 0.00 | 51.310 | 10.864 | 0.012 | 282.1 | 279.7 | 281.9 | 273.6 |
| 21 | 457.20 | -15.00 | 0.00 | 51.294 | 12.996 | 0.012 | 282.2 | 279.7 | 282.0 | 272.2 |
| 22 | 457.20 | -10.00 | 0.00 | 51.428 | 15.125 | 0.012 | 282.2 | 279.7 | 282.0 | 270.7 |
| 23 | 457.20 | -5.00 | 0.00 | 51.503 | 16.543 | 0.011 | 282.2 | 279.8 | 282.0 | 269.7 |
| 24 | 457.20 | 0.00 | 0.00 | 51.427 | 16.921 | 0.012 | 282.3 | 279.7 | 282.0 | 269.5 |
| 25 | 457.20 | 5.00 | 0.00 | 51.494 | 15.793 | 0.012 | 282.3 | 279.8 | 282.1 | 270.3 |
| 26 | 457.20 | 10.00 | 0.00 | 51.427 | 13.792 | 0.012 | 282.3 | 279.8 | 282.1 | 271.7 |
| 27 | 457.20 | 15.00 | 0.00 | 51.483 | 11.640 | 0.012 | 282.3 | 279.8 | 282.0 | 273.1 |
| 28 | 457.20 | 20.00 | 0.00 | 51.469 | 9.587 | 0.012 | 282.3 | 279.8 | 282.0 | 274.6 |
| 29 | 457.20 | 25.00 | 0.00 | 51.376 | 8.121 | 0.012 | 282.3 | 279.8 | 282.0 | 275.7 |
| 30 | 457.20 | 30.00 | 0.00 | 51.191 | 7.135 | 0.012 | 282.3 | 279.7 | 282.1 | 276.5 |
| 31 | 457.20 | 35.00 | 0.00 | 51.249 | 6.411 | 0.012 | 282.3 | 279.8 | 282.1 | 277.1 |
| 32 | 457.20 | 40.00 | 0.00 | 51.151 | 5.728 | 0.012 | 282.3 | 279.7 | 282.1 | 277.6 |
| 33 | 457.20 | 45.00 | 0.00 | 51.175 | 5.595 | 0.013 | 282.4 | 279.7 | 282.0 | 277.6 |
| 34 | 457.20 | 50.00 | 0.00 | 51.299 | 5.015 | 0.013 | 282.3 | 279.7 | 282.1 | 278.1 |
| 35 | 457.20 | 55.00 | 0.00 | 51.442 | 4.507 | 0.013 | 282.4 | 279.7 | 282.1 | 278.5 |
| 36 | 457.20 | 60.00 | 0.00 | 51.369 | 3.669 | 0.012 | 282.4 | 279.7 | 282.1 | 279.2 |
| 37 | 457.20 | 65.00 | 0.00 | 51.457 | 3.354 | 0.013 | 282.3 | 279.7 | 282.1 | 279.4 |
| 38 | 457.20 | 70.00 | 0.00 | 51.545 | 2.768 | 0.013 | 282.3 | 279.7 | 282.1 | 279.9 |
| 39 | 457.20 | 75.00 | 0.00 | 51.388 | 2.005 | 0.012 | 282.3 | 279.7 | 282.1 | 280.5 |
| 40 | 457.20 | 80.00 | 0.00 | 51.278 | 1.444 | 0.013 | 282.2 | 279.7 | 282.1 | 280.9 |
| 41 | 457.20 | 85.00 | 0.00 | 51.336 | 0.921 | 0.013 | 282.2 | 279.7 | 282.1 | 281.4 |
| 42 | 457.20 | 90.00 | 0.00 | 51.260 | 0.735 | 0.014 | 282.2 | 279.7 | 282.0 | 281.4 |
| 43 | 457.20 | 95.00 | 0.00 | 51.161 | 0.502 | 0.013 | 282.2 | 279.7 | 282.0 | 281.6 |
| 44 | 457.20 | 100.00 | 0.00 | 51.126 | 0.351 | 0.013 | 282.3 | 279.7 | 282.0 | 281.7 |
| 45 | 457.20 | 105.00 | 0.00 | 51.081 | 0.150 | 0.015 | 282.2 | 279.7 | 282.0 | 281.9 |
| 46 | 457.20 | 110.00 | 0.00 | 51.182 | 0.111 | 0.016 | 282.2 | 279.7 | 282.0 | 281.9 |

File : TAB275T

19-JAN-89
19-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG V(C)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.408 kPa

Mean gauged plenum pressure : 51.433 kPa
RMS gauged plenum pressure : 0.163 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.307 | 0.091 | 0.018 | 285.9 | 280.2 | 285.8 | 285.7 |
| 3 | 457.20 | -105.00 | 0.00 | 51.367 | 0.060 | 0.014 | 285.9 | 280.1 | 285.8 | 285.8 |
| 4 | 457.20 | -100.00 | 0.00 | 51.295 | 0.054 | 0.014 | 285.9 | 280.1 | 285.8 | 285.8 |
| 5 | 457.20 | -95.00 | 0.00 | 51.548 | 0.042 | 0.013 | 285.9 | 280.0 | 285.8 | 285.8 |
| 6 | 457.20 | -90.00 | 0.00 | 51.429 | 0.029 | 0.015 | 285.9 | 280.1 | 285.8 | 285.8 |
| 7 | 457.20 | -85.00 | 0.00 | 51.621 | 0.024 | 0.017 | 285.8 | 280.1 | 285.7 | 285.7 |
| 8 | 457.20 | -80.00 | 0.00 | 51.683 | 0.014 | 0.015 | 285.8 | 280.1 | 285.8 | 285.8 |
| 9 | 457.20 | -75.00 | 0.00 | 51.657 | 0.013 | 0.019 | 285.8 | 280.1 | 285.7 | 285.7 |
| 10 | 457.20 | -70.00 | 0.00 | 51.470 | 0.017 | 0.016 | 285.8 | 280.1 | 285.7 | 285.7 |
| 11 | 457.20 | -65.00 | 0.00 | 51.523 | 0.014 | 0.015 | 285.7 | 280.1 | 285.7 | 285.7 |
| 12 | 457.20 | -60.00 | 0.00 | 51.373 | 0.070 | 0.020 | 285.7 | 280.1 | 285.7 | 285.6 |
| 13 | 457.20 | -55.00 | 0.00 | 51.355 | 0.214 | 0.016 | 285.7 | 280.0 | 285.6 | 285.4 |
| 14 | 457.20 | -50.00 | 0.00 | 51.312 | 0.485 | 0.018 | 285.7 | 280.0 | 285.6 | 285.2 |
| 15 | 457.20 | -45.00 | 0.00 | 51.358 | 0.931 | 0.021 | 285.7 | 280.1 | 285.7 | 284.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.319 | 1.510 | 0.018 | 285.8 | 280.1 | 285.7 | 284.5 |
| 17 | 457.20 | -35.00 | 0.00 | 51.405 | 2.547 | 0.016 | 285.7 | 280.1 | 285.6 | 283.5 |
| 18 | 457.20 | -30.00 | 0.00 | 51.625 | 3.990 | 0.020 | 285.7 | 280.1 | 285.6 | 282.4 |
| 19 | 457.20 | -25.00 | 0.00 | 51.459 | 5.614 | 0.018 | 285.6 | 280.1 | 285.5 | 281.0 |
| 20 | 457.20 | -20.00 | 0.00 | 51.537 | 8.071 | 0.022 | 285.7 | 280.1 | 285.5 | 279.1 |
| 21 | 457.20 | -15.00 | 0.00 | 51.574 | 11.349 | 0.021 | 285.6 | 280.1 | 285.5 | 276.7 |
| 22 | 457.20 | -10.00 | 0.00 | 51.553 | 14.661 | 0.019 | 285.6 | 280.1 | 285.4 | 274.3 |
| 23 | 457.20 | -5.00 | 0.00 | 51.323 | 17.621 | 0.019 | 285.6 | 280.0 | 285.3 | 272.2 |
| 24 | 457.20 | 0.00 | 0.00 | 51.288 | 19.077 | 0.017 | 285.6 | 280.1 | 285.3 | 271.2 |
| 25 | 457.20 | 5.00 | 0.00 | 51.359 | 18.054 | 0.019 | 285.6 | 280.0 | 285.2 | 271.8 |
| 26 | 457.20 | 10.00 | 0.00 | 51.188 | 15.241 | 0.018 | 285.6 | 280.1 | 285.1 | 273.6 |
| 27 | 457.20 | 15.00 | 0.00 | 51.422 | 11.730 | 0.018 | 285.6 | 280.0 | 285.1 | 276.1 |
| 28 | 457.20 | 20.00 | 0.00 | 51.584 | 8.550 | 0.017 | 285.5 | 280.0 | 285.1 | 278.4 |
| 29 | 457.20 | 25.00 | 0.00 | 51.387 | 5.895 | 0.020 | 285.5 | 280.1 | 285.0 | 280.3 |
| 30 | 457.20 | 30.00 | 0.00 | 51.308 | 3.911 | 0.015 | 285.5 | 280.1 | 285.0 | 281.8 |
| 31 | 457.20 | 35.00 | 0.00 | 51.387 | 2.537 | 0.019 | 285.5 | 280.0 | 284.9 | 282.8 |
| 32 | 457.20 | 40.00 | 0.00 | 51.412 | 1.494 | 0.014 | 285.4 | 280.0 | 284.9 | 283.7 |
| 33 | 457.20 | 45.00 | 0.00 | 51.396 | 0.836 | 0.021 | 285.4 | 280.0 | 284.9 | 284.2 |
| 34 | 457.20 | 50.00 | 0.00 | 51.149 | 0.455 | 0.016 | 285.4 | 280.0 | 284.9 | 284.5 |
| 35 | 457.20 | 55.00 | 0.00 | 51.431 | 0.169 | 0.016 | 285.3 | 280.0 | 284.9 | 284.8 |
| 36 | 457.20 | 60.00 | 0.00 | 51.313 | 0.061 | 0.017 | 285.3 | 280.0 | 285.0 | 284.9 |
| 37 | 457.20 | 65.00 | 0.00 | 51.330 | 0.013 | 0.017 | 285.3 | 280.0 | 285.0 | 285.0 |
| 38 | 457.20 | 70.00 | 0.00 | 51.591 | 0.011 | 0.014 | 285.3 | 280.0 | 285.0 | 285.0 |
| 39 | 457.20 | 75.00 | 0.00 | 51.400 | 0.011 | 0.013 | 285.4 | 280.0 | 285.0 | 285.0 |
| 40 | 457.20 | 80.00 | 0.00 | 51.917 | 0.011 | 0.014 | 285.3 | 280.0 | 285.1 | 285.1 |
| 41 | 457.20 | 85.00 | 0.00 | 51.266 | 0.012 | 0.015 | 285.3 | 279.9 | 285.1 | 285.1 |
| 42 | 457.20 | 90.00 | 0.00 | 51.380 | 0.011 | 0.015 | 285.3 | 280.0 | 285.1 | 285.1 |
| 43 | 457.20 | 95.00 | 0.00 | 51.286 | 0.011 | 0.014 | 285.3 | 280.0 | 285.1 | 285.1 |
| 44 | 457.20 | 100.00 | 0.00 | 51.471 | 0.011 | 0.014 | 285.2 | 280.0 | 285.1 | 285.1 |
| 45 | 457.20 | 105.00 | 0.00 | 51.700 | 0.011 | 0.014 | 285.3 | 280.0 | 285.1 | 285.1 |
| 46 | 457.20 | 110.00 | 0.00 | 51.323 | 0.011 | 0.014 | 285.2 | 279.9 | 285.1 | 285.1 |

File : TAB276T 19-JAN-89
19-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, 0 DEG
CONFIG V(C)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.341 kPa

Mean gauged plenum pressure : 51.528 kPa
RMS gauged plenum pressure : 0.061 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.471 | 5.423 | 0.026 | 284.8 | 279.8 | 284.7 | 280.4 |
| 3 | 457.20 | 0.00 | -58.00 | 51.503 | 5.967 | 0.025 | 284.8 | 279.8 | 284.7 | 279.9 |
| 4 | 457.20 | 0.00 | -56.00 | 51.521 | 6.412 | 0.025 | 284.8 | 279.8 | 284.7 | 279.6 |
| 5 | 457.20 | 0.00 | -54.00 | 51.540 | 6.832 | 0.023 | 284.8 | 279.8 | 284.7 | 279.3 |
| 6 | 457.20 | 0.00 | -52.00 | 51.504 | 7.278 | 0.024 | 284.9 | 279.8 | 284.7 | 278.9 |
| 7 | 457.20 | 0.00 | -50.00 | 51.457 | 7.737 | 0.023 | 284.9 | 279.8 | 284.7 | 278.6 |
| 8 | 457.20 | 0.00 | -48.00 | 51.477 | 8.403 | 0.023 | 284.9 | 279.8 | 284.7 | 278.1 |
| 9 | 457.20 | 0.00 | -46.00 | 51.461 | 8.882 | 0.018 | 285.0 | 279.8 | 284.7 | 277.7 |
| 10 | 457.20 | 0.00 | -44.00 | 51.449 | 9.436 | 0.017 | 284.9 | 279.8 | 284.7 | 277.3 |
| 11 | 457.20 | 0.00 | -42.00 | 51.492 | 9.823 | 0.019 | 284.9 | 279.7 | 284.7 | 277.0 |
| 12 | 457.20 | 0.00 | -40.00 | 51.569 | 10.317 | 0.018 | 284.9 | 279.8 | 284.7 | 276.7 |
| 13 | 457.20 | 0.00 | -38.00 | 51.605 | 11.067 | 0.017 | 284.9 | 279.8 | 284.7 | 276.1 |
| 14 | 457.20 | 0.00 | -36.00 | 51.566 | 11.573 | 0.018 | 284.8 | 279.8 | 284.6 | 275.7 |
| 15 | 457.20 | 0.00 | -34.00 | 51.596 | 12.197 | 0.019 | 284.7 | 279.8 | 284.6 | 275.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -32.00 | 51.621 | 12.642 | 0.020 | 284.7 | 279.8 | 284.6 | 274.9 |
| 17 | 457.20 | 0.00 | -30.00 | 51.651 | 13.084 | 0.017 | 284.7 | 279.8 | 284.5 | 274.5 |
| 18 | 457.20 | 0.00 | -28.00 | 51.428 | 13.464 | 0.018 | 284.6 | 279.8 | 284.4 | 274.1 |
| 19 | 457.20 | 0.00 | -26.00 | 51.484 | 14.359 | 0.015 | 284.6 | 279.8 | 284.4 | 273.5 |
| 20 | 457.20 | 0.00 | -24.00 | 51.515 | 14.785 | 0.016 | 284.6 | 279.8 | 284.4 | 273.2 |
| 21 | 457.20 | 0.00 | -22.00 | 51.543 | 15.436 | 0.017 | 284.6 | 279.8 | 284.4 | 272.8 |
| 22 | 457.20 | 0.00 | -20.00 | 51.561 | 15.812 | 0.015 | 284.6 | 279.8 | 284.3 | 272.4 |
| 23 | 457.20 | 0.00 | -18.00 | 51.586 | 16.593 | 0.017 | 284.5 | 279.7 | 284.3 | 271.9 |
| 24 | 457.20 | 0.00 | -16.00 | 51.577 | 16.611 | 0.016 | 284.5 | 279.7 | 284.3 | 271.9 |
| 25 | 457.20 | 0.00 | -14.00 | 51.561 | 17.286 | 0.018 | 284.6 | 279.7 | 284.4 | 271.5 |
| 26 | 457.20 | 0.00 | -12.00 | 51.527 | 17.629 | 0.018 | 284.5 | 279.7 | 284.4 | 271.3 |
| 27 | 457.20 | 0.00 | -10.00 | 51.561 | 18.264 | 0.017 | 284.6 | 279.7 | 284.4 | 270.9 |
| 28 | 457.20 | 0.00 | -8.00 | 51.482 | 18.272 | 0.014 | 284.5 | 279.7 | 284.4 | 270.9 |
| 29 | 457.20 | 0.00 | -6.00 | 51.457 | 18.696 | 0.013 | 284.5 | 279.7 | 284.4 | 270.6 |
| 30 | 457.20 | 0.00 | -4.00 | 51.438 | 19.169 | 0.013 | 284.4 | 279.7 | 284.3 | 270.2 |
| 31 | 457.20 | 0.00 | -2.00 | 51.428 | 18.932 | 0.016 | 284.4 | 279.7 | 284.2 | 270.2 |
| 32 | 457.20 | 0.00 | 0.00 | 51.441 | 19.058 | 0.013 | 284.3 | 279.7 | 284.1 | 270.1 |
| 33 | 457.20 | 0.00 | 2.00 | 51.532 | 19.217 | 0.013 | 284.3 | 279.7 | 284.1 | 269.9 |
| 34 | 457.20 | 0.00 | 4.00 | 51.565 | 19.123 | 0.014 | 284.4 | 279.7 | 284.1 | 270.0 |
| 35 | 457.20 | 0.00 | 6.00 | 51.577 | 19.046 | 0.013 | 284.4 | 279.7 | 284.0 | 270.0 |
| 36 | 457.20 | 0.00 | 8.00 | 51.571 | 18.802 | 0.013 | 284.4 | 279.7 | 283.9 | 270.0 |
| 37 | 457.20 | 0.00 | 10.00 | 51.583 | 18.631 | 0.013 | 284.4 | 279.7 | 283.9 | 270.1 |

File : TAB260T

13-JAN-89
13-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG V(C)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.815 kPa

Mean gauged plenum pressure : 51.488 kPa
RMS gauged plenum pressure : 0.132 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.551 | 0.191 | 0.094 | 278.3 | 278.5 | 278.8 | 278.6 |
| 3 | 457.20 | -105.00 | 0.00 | 51.451 | 0.177 | 0.104 | 278.3 | 278.6 | 278.6 | 278.5 |
| 4 | 457.20 | -100.00 | 0.00 | 51.326 | 0.187 | 0.112 | 278.3 | 278.7 | 278.6 | 278.4 |
| 5 | 457.20 | -95.00 | 0.00 | 51.501 | 0.193 | 0.110 | 278.3 | 278.8 | 278.6 | 278.4 |
| 6 | 457.20 | -90.00 | 0.00 | 51.479 | 0.190 | 0.116 | 278.4 | 278.9 | 278.5 | 278.3 |
| 7 | 457.20 | -85.00 | 0.00 | 51.515 | 0.190 | 0.122 | 278.4 | 279.0 | 278.5 | 278.3 |
| 8 | 457.20 | -80.00 | 0.00 | 51.863 | 0.175 | 0.125 | 278.3 | 279.1 | 278.3 | 278.2 |
| 9 | 457.20 | -75.00 | 0.00 | 51.620 | 0.160 | 0.117 | 278.2 | 279.2 | 278.3 | 278.2 |
| 10 | 457.20 | -70.00 | 0.00 | 51.519 | 0.172 | 0.126 | 278.2 | 279.2 | 278.3 | 278.2 |
| 11 | 457.20 | -65.00 | 0.00 | 51.451 | 0.210 | 0.121 | 278.2 | 279.3 | 278.1 | 277.9 |
| 12 | 457.20 | -60.00 | 0.00 | 51.421 | 0.328 | 0.121 | 278.2 | 279.3 | 278.1 | 277.8 |
| 13 | 457.20 | -55.00 | 0.00 | 51.388 | 0.430 | 0.130 | 278.2 | 279.4 | 277.9 | 277.6 |
| 14 | 457.20 | -50.00 | 0.00 | 51.414 | 0.780 | 0.133 | 278.2 | 279.4 | 277.8 | 277.2 |
| 15 | 457.20 | -45.00 | 0.00 | 51.366 | 1.280 | 0.135 | 278.3 | 279.4 | 277.6 | 276.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.372 | 2.045 | 0.133 | 278.4 | 279.4 | 277.6 | 276.0 |
| 17 | 457.20 | -35.00 | 0.00 | 51.379 | 2.961 | 0.125 | 278.3 | 279.5 | 277.5 | 275.2 |
| 18 | 457.20 | -30.00 | 0.00 | 51.633 | 4.618 | 0.127 | 278.3 | 279.5 | 277.4 | 273.8 |
| 19 | 457.20 | -25.00 | 0.00 | 51.563 | 6.432 | 0.125 | 278.3 | 279.5 | 277.3 | 272.3 |
| 20 | 457.20 | -20.00 | 0.00 | 51.651 | 9.270 | 0.126 | 278.2 | 279.6 | 278.4 | 271.3 |
| 21 | 457.20 | -15.00 | 0.00 | 51.641 | 12.335 | 0.125 | 278.2 | 279.5 | 278.4 | 269.2 |
| 22 | 457.20 | -10.00 | 0.00 | 51.618 | 15.823 | 0.121 | 278.3 | 279.6 | 278.4 | 266.8 |
| 23 | 457.20 | -5.00 | 0.00 | 51.613 | 18.263 | 0.117 | 278.3 | 279.6 | 278.4 | 265.2 |
| 24 | 457.20 | 0.00 | 0.00 | 51.581 | 19.003 | 0.116 | 278.1 | 279.6 | 278.3 | 264.6 |
| 25 | 457.20 | 5.00 | 0.00 | 51.531 | 17.930 | 0.112 | 278.1 | 279.6 | 278.3 | 265.3 |
| 26 | 457.20 | 10.00 | 0.00 | 51.455 | 14.789 | 0.112 | 278.2 | 279.6 | 278.2 | 267.3 |
| 27 | 457.20 | 15.00 | 0.00 | 51.403 | 11.372 | 0.114 | 278.2 | 279.6 | 278.1 | 269.6 |
| 28 | 457.20 | 20.00 | 0.00 | 51.404 | 8.299 | 0.105 | 278.3 | 279.6 | 278.2 | 271.9 |
| 29 | 457.20 | 25.00 | 0.00 | 51.414 | 5.698 | 0.107 | 278.2 | 279.6 | 278.1 | 273.7 |
| 30 | 457.20 | 30.00 | 0.00 | 51.578 | 4.027 | 0.106 | 278.1 | 279.6 | 278.1 | 274.9 |
| 31 | 457.20 | 35.00 | 0.00 | 51.576 | 2.409 | 0.104 | 278.2 | 279.6 | 278.1 | 276.2 |
| 32 | 457.20 | 40.00 | 0.00 | 51.576 | 1.551 | 0.103 | 278.1 | 279.6 | 277.8 | 276.6 |
| 33 | 457.20 | 45.00 | 0.00 | 51.574 | 0.967 | 0.101 | 278.2 | 279.6 | 277.6 | 276.8 |
| 34 | 457.20 | 50.00 | 0.00 | 51.588 | 0.595 | 0.095 | 278.3 | 279.7 | 277.8 | 277.3 |
| 35 | 457.20 | 55.00 | 0.00 | 51.594 | 0.346 | 0.088 | 278.4 | 279.7 | 277.9 | 277.6 |
| 36 | 457.20 | 60.00 | 0.00 | 51.575 | 0.191 | 0.081 | 278.6 | 279.7 | 278.1 | 277.9 |
| 37 | 457.20 | 65.00 | 0.00 | 51.548 | 0.103 | 0.080 | 278.6 | 279.8 | 278.3 | 278.2 |
| 38 | 457.20 | 70.00 | 0.00 | 51.492 | 0.076 | 0.069 | 278.8 | 279.8 | 278.6 | 278.5 |
| 39 | 457.20 | 75.00 | 0.00 | 51.423 | 0.047 | 0.062 | 279.0 | 279.9 | 278.8 | 278.8 |
| 40 | 457.20 | 80.00 | 0.00 | 51.441 | 0.041 | 0.060 | 279.1 | 279.9 | 278.7 | 278.7 |
| 41 | 457.20 | 85.00 | 0.00 | 51.430 | 0.038 | 0.057 | 279.1 | 279.9 | 278.6 | 278.6 |
| 42 | 457.20 | 90.00 | 0.00 | 51.382 | 0.030 | 0.049 | 279.0 | 279.9 | 278.7 | 278.7 |
| 43 | 457.20 | 95.00 | 0.00 | 51.356 | 0.033 | 0.049 | 279.0 | 279.9 | 278.8 | 278.8 |
| 44 | 457.20 | 100.00 | 0.00 | 51.328 | 0.021 | 0.041 | 279.0 | 279.8 | 278.7 | 278.7 |
| 45 | 457.20 | 105.00 | 0.00 | 51.187 | 0.015 | 0.031 | 279.0 | 279.9 | 278.9 | 278.9 |
| 46 | 457.20 | 110.00 | 0.00 | 51.377 | 0.014 | 0.026 | 278.9 | 279.9 | 278.8 | 278.8 |

File : TAB274T 19-JAN-89
19-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
CONFIG V(C)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.442 kPa

Mean gauged plenum pressure : 51.359 kPa
RMS gauged plenum pressure : 0.260 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.170 | 0.044 | 0.012 | 286.0 | 280.4 | 285.4 | 285.4 |
| 3 | 457.20 | -105.00 | 0.00 | 51.325 | 0.018 | 0.012 | 285.9 | 280.3 | 285.4 | 285.4 |
| 4 | 457.20 | -100.00 | 0.00 | 51.142 | 0.014 | 0.012 | 285.8 | 280.3 | 285.4 | 285.4 |
| 5 | 457.20 | -95.00 | 0.00 | 51.279 | 0.013 | 0.012 | 285.8 | 280.3 | 285.4 | 285.4 |
| 6 | 457.20 | -90.00 | 0.00 | 51.407 | 0.013 | 0.012 | 285.8 | 280.3 | 285.4 | 285.4 |
| 7 | 457.20 | -85.00 | 0.00 | 51.297 | 0.011 | 0.012 | 285.9 | 280.3 | 285.5 | 285.5 |
| 8 | 457.20 | -80.00 | 0.00 | 51.421 | 0.011 | 0.012 | 285.8 | 280.3 | 285.5 | 285.5 |
| 9 | 457.20 | -75.00 | 0.00 | 51.428 | 0.011 | 0.012 | 285.9 | 280.3 | 285.5 | 285.5 |
| 10 | 457.20 | -70.00 | 0.00 | 51.262 | 0.011 | 0.012 | 285.8 | 280.3 | 285.5 | 285.5 |
| 11 | 457.20 | -65.00 | 0.00 | 51.355 | 0.024 | 0.012 | 285.8 | 280.3 | 285.5 | 285.5 |
| 12 | 457.20 | -60.00 | 0.00 | 51.397 | 0.088 | 0.013 | 285.8 | 280.3 | 285.6 | 285.5 |
| 13 | 457.20 | -55.00 | 0.00 | 51.183 | 0.285 | 0.012 | 285.9 | 280.2 | 285.6 | 285.4 |
| 14 | 457.20 | -50.00 | 0.00 | 51.156 | 0.637 | 0.012 | 285.9 | 280.2 | 285.6 | 285.1 |
| 15 | 457.20 | -45.00 | 0.00 | 50.931 | 1.155 | 0.012 | 285.9 | 280.2 | 285.6 | 284.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.549 | 1.857 | 0.012 | 285.9 | 280.3 | 285.6 | 284.1 |
| 17 | 457.20 | -35.00 | 0.00 | 51.476 | 3.038 | 0.013 | 285.9 | 280.3 | 285.6 | 283.1 |
| 18 | 457.20 | -30.00 | 0.00 | 51.366 | 4.526 | 0.012 | 285.9 | 280.3 | 285.6 | 281.9 |
| 19 | 457.20 | -25.00 | 0.00 | 51.450 | 6.532 | 0.014 | 285.9 | 280.3 | 285.6 | 280.4 |
| 20 | 457.20 | -20.00 | 0.00 | 51.281 | 9.114 | 0.013 | 285.9 | 280.3 | 285.6 | 278.5 |
| 21 | 457.20 | -15.00 | 0.00 | 51.321 | 12.157 | 0.014 | 285.9 | 280.3 | 285.6 | 276.2 |
| 22 | 457.20 | -10.00 | 0.00 | 51.490 | 15.522 | 0.014 | 285.9 | 280.3 | 285.6 | 273.9 |
| 23 | 457.20 | -5.00 | 0.00 | 51.285 | 18.098 | 0.015 | 286.0 | 280.2 | 285.5 | 272.0 |
| 24 | 457.20 | 0.00 | 0.00 | 51.199 | 18.828 | 0.013 | 286.0 | 280.3 | 285.5 | 271.5 |
| 25 | 457.20 | 5.00 | 0.00 | 51.338 | 17.563 | 0.014 | 286.0 | 280.3 | 285.5 | 272.4 |
| 26 | 457.20 | 10.00 | 0.00 | 51.351 | 14.795 | 0.016 | 286.1 | 280.4 | 285.6 | 274.4 |
| 27 | 457.20 | 15.00 | 0.00 | 51.492 | 11.545 | 0.014 | 286.3 | 280.4 | 285.6 | 276.7 |
| 28 | 457.20 | 20.00 | 0.00 | 51.760 | 8.535 | 0.017 | 286.4 | 280.5 | 285.7 | 279.0 |
| 29 | 457.20 | 25.00 | 0.00 | 51.465 | 5.991 | 0.017 | 286.3 | 280.4 | 285.6 | 280.8 |
| 30 | 457.20 | 30.00 | 0.00 | 51.369 | 4.198 | 0.016 | 286.4 | 280.4 | 285.7 | 282.3 |
| 31 | 457.20 | 35.00 | 0.00 | 51.271 | 2.516 | 0.019 | 286.4 | 280.4 | 285.6 | 283.5 |
| 32 | 457.20 | 40.00 | 0.00 | 50.686 | 1.521 | 0.015 | 286.5 | 280.4 | 285.6 | 284.3 |
| 33 | 457.20 | 45.00 | 0.00 | 51.788 | 1.098 | 0.017 | 286.4 | 280.4 | 285.7 | 284.8 |
| 34 | 457.20 | 50.00 | 0.00 | 51.509 | 0.615 | 0.019 | 286.5 | 280.4 | 285.7 | 285.2 |
| 35 | 457.20 | 55.00 | 0.00 | 51.373 | 0.294 | 0.016 | 286.5 | 280.4 | 285.7 | 285.5 |
| 36 | 457.20 | 60.00 | 0.00 | 51.441 | 0.136 | 0.016 | 286.4 | 280.4 | 285.7 | 285.6 |
| 37 | 457.20 | 65.00 | 0.00 | 51.404 | 0.058 | 0.015 | 286.4 | 280.3 | 285.7 | 285.7 |
| 38 | 457.20 | 70.00 | 0.00 | 51.517 | 0.014 | 0.017 | 286.3 | 280.3 | 285.7 | 285.7 |
| 39 | 457.20 | 75.00 | 0.00 | 51.318 | 0.012 | 0.019 | 286.3 | 280.3 | 285.7 | 285.7 |
| 40 | 457.20 | 80.00 | 0.00 | 51.316 | 0.012 | 0.015 | 286.3 | 280.3 | 285.7 | 285.7 |
| 41 | 457.20 | 85.00 | 0.00 | 51.363 | 0.012 | 0.017 | 286.3 | 280.2 | 285.8 | 285.8 |
| 42 | 457.20 | 90.00 | 0.00 | 51.368 | 0.013 | 0.019 | 286.2 | 280.2 | 285.7 | 285.7 |
| 43 | 457.20 | 95.00 | 0.00 | 51.560 | 0.013 | 0.021 | 286.2 | 280.3 | 285.7 | 285.7 |
| 44 | 457.20 | 100.00 | 0.00 | 51.356 | 0.013 | 0.019 | 286.2 | 280.3 | 285.7 | 285.7 |
| 45 | 457.20 | 105.00 | 0.00 | 51.625 | 0.013 | 0.019 | 286.2 | 280.3 | 285.7 | 285.7 |
| 46 | 457.20 | 110.00 | 0.00 | 51.336 | 0.013 | 0.018 | 286.2 | 280.3 | 285.7 | 285.7 |

File : TAB365T 10-MAR-89
10-MAR-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
I-C

C1 : X/D = 9
C2 : HORIZONTAL
C3 : -10 MM
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.950 kPa

Mean gauged plenum pressure : 51.468 kPa
RMS gauged plenum pressure : 0.244 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | -10.00 | 51.563 | 0.308 | 0.164 | 281.2 | 282.1 | 280.5 | 280.3 |
| 3 | 457.20 | -105.00 | -10.00 | 51.989 | 0.535 | 0.324 | 281.2 | 282.2 | 280.5 | 280.1 |
| 4 | 457.20 | -100.00 | -10.00 | 51.988 | 0.868 | 0.514 | 281.3 | 282.2 | 280.3 | 279.6 |
| 5 | 457.20 | -95.00 | -10.00 | 51.034 | 1.417 | 0.835 | 281.3 | 282.2 | 280.5 | 279.4 |
| 6 | 457.20 | -90.00 | -10.00 | 51.054 | 2.117 | 1.237 | 281.4 | 282.1 | 280.4 | 278.7 |
| 7 | 457.20 | -85.00 | -10.00 | 51.572 | 2.871 | 1.682 | 281.4 | 282.2 | 280.2 | 277.9 |
| 8 | 457.20 | -80.00 | -10.00 | 51.462 | 4.067 | 2.333 | 281.5 | 282.2 | 280.3 | 277.1 |
| 9 | 457.20 | -75.00 | -10.00 | 51.260 | 5.177 | 3.089 | 281.6 | 282.2 | 280.6 | 276.5 |
| 10 | 457.20 | -70.00 | -10.00 | 51.300 | 6.591 | 3.893 | 281.7 | 282.2 | 280.6 | 275.5 |
| 11 | 457.20 | -65.00 | -10.00 | 51.623 | 8.133 | 4.788 | 281.6 | 282.2 | 280.5 | 274.2 |
| 12 | 457.20 | -60.00 | -10.00 | 51.619 | 9.745 | 5.671 | 281.7 | 282.2 | 280.7 | 273.3 |
| 13 | 457.20 | -55.00 | -10.00 | 51.633 | 11.248 | 6.472 | 281.7 | 282.2 | 281.0 | 272.5 |
| 14 | 457.20 | -50.00 | -10.00 | 51.337 | 12.412 | 7.218 | 281.6 | 282.2 | 281.1 | 271.7 |
| 15 | 457.20 | -45.00 | -10.00 | 51.079 | 13.115 | 7.550 | 281.7 | 282.2 | 281.3 | 271.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | -10.00 | 51.585 | 12.987 | 7.576 | 281.7 | 282.2 | 281.2 | 271.4 |
| 17 | 457.20 | -35.00 | -10.00 | 51.612 | 12.193 | 7.111 | 281.7 | 282.2 | 281.0 | 271.8 |
| 18 | 457.20 | -30.00 | -10.00 | 51.508 | 10.633 | 6.231 | 281.7 | 282.2 | 280.6 | 272.5 |
| 19 | 457.20 | -25.00 | -10.00 | 50.986 | 8.850 | 5.150 | 281.6 | 282.2 | 280.2 | 273.4 |
| 20 | 457.20 | -20.00 | -10.00 | 51.445 | 7.424 | 4.322 | 281.6 | 282.1 | 280.0 | 274.3 |
| 21 | 457.20 | -15.00 | -10.00 | 51.574 | 6.237 | 3.614 | 281.6 | 282.2 | 280.0 | 275.1 |
| 22 | 457.20 | -10.00 | -10.00 | 51.489 | 5.301 | 3.066 | 281.6 | 282.2 | 279.8 | 275.7 |
| 23 | 457.20 | -5.00 | -10.00 | 51.617 | 4.760 | 2.757 | 281.6 | 282.1 | 279.8 | 276.1 |
| 24 | 457.20 | 0.00 | -10.00 | 51.213 | 4.657 | 2.701 | 281.7 | 282.1 | 279.9 | 276.2 |
| 25 | 457.20 | 5.00 | -10.00 | 51.382 | 4.713 | 2.758 | 281.9 | 282.1 | 280.2 | 276.5 |
| 26 | 457.20 | 10.00 | -10.00 | 51.723 | 5.176 | 3.024 | 281.9 | 282.2 | 279.9 | 275.8 |
| 27 | 457.20 | 15.00 | -10.00 | 51.504 | 6.025 | 3.498 | 281.9 | 282.2 | 279.9 | 275.2 |
| 28 | 457.20 | 20.00 | -10.00 | 51.516 | 7.184 | 4.163 | 281.9 | 282.2 | 280.3 | 274.7 |
| 29 | 457.20 | 25.00 | -10.00 | 51.345 | 8.396 | 4.867 | 282.0 | 282.2 | 280.5 | 274.0 |
| 30 | 457.20 | 30.00 | -10.00 | 51.424 | 10.170 | 5.895 | 282.0 | 282.2 | 280.7 | 272.9 |
| 31 | 457.20 | 35.00 | -10.00 | 51.167 | 11.088 | 6.448 | 282.0 | 282.2 | 281.2 | 272.8 |
| 32 | 457.20 | 40.00 | -10.00 | 51.448 | 11.733 | 6.848 | 282.0 | 282.2 | 281.2 | 272.3 |
| 33 | 457.20 | 45.00 | -10.00 | 51.572 | 11.671 | 6.744 | 282.0 | 282.2 | 281.4 | 272.6 |
| 34 | 457.20 | 50.00 | -10.00 | 51.179 | 10.642 | 6.026 | 282.1 | 282.2 | 281.3 | 273.2 |
| 35 | 457.20 | 55.00 | -10.00 | 51.568 | 9.227 | 5.361 | 282.2 | 282.2 | 281.2 | 274.1 |
| 36 | 457.20 | 60.00 | -10.00 | 51.529 | 7.759 | 4.350 | 282.2 | 282.2 | 280.8 | 274.8 |
| 37 | 457.20 | 65.00 | -10.00 | 51.616 | 6.299 | 3.683 | 282.2 | 282.2 | 280.8 | 275.9 |
| 38 | 457.20 | 70.00 | -10.00 | 51.329 | 4.743 | 2.751 | 282.3 | 282.2 | 280.8 | 277.1 |
| 39 | 457.20 | 75.00 | -10.00 | 51.419 | 3.726 | 2.301 | 282.3 | 282.2 | 280.3 | 277.4 |
| 40 | 457.20 | 80.00 | -10.00 | 51.598 | 3.199 | 1.763 | 282.3 | 282.2 | 280.5 | 278.0 |
| 41 | 457.20 | 85.00 | -10.00 | 51.646 | 2.053 | 1.151 | 282.3 | 282.2 | 280.5 | 278.9 |
| 42 | 457.20 | 90.00 | -10.00 | 51.739 | 1.370 | 0.894 | 282.2 | 282.2 | 280.7 | 279.6 |
| 43 | 457.20 | 95.00 | -10.00 | 51.332 | 0.933 | 0.528 | 282.2 | 282.2 | 280.9 | 280.1 |
| 44 | 457.20 | 100.00 | -10.00 | 51.380 | 0.609 | 0.388 | 282.2 | 282.2 | 280.9 | 280.4 |
| 45 | 457.20 | 105.00 | -10.00 | 51.563 | 0.426 | 0.209 | 282.1 | 282.1 | 280.9 | 280.6 |
| 46 | 457.20 | 110.00 | -10.00 | 51.675 | 0.153 | 0.096 | 282.0 | 282.1 | 281.3 | 281.2 |

File : TAB364T 10-MAR-89
10-MAR-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
I-C

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.916 kPa

Mean gauged plenum pressure : 51.483 kPa
RMS gauged plenum pressure : 0.239 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.624 | 0.949 | 0.558 | 279.8 | 280.2 | 278.8 | 278.0 |
| 3 | 457.20 | 0.00 | -58.00 | 51.663 | 1.036 | 0.619 | 279.8 | 280.5 | 278.8 | 278.0 |
| 4 | 457.20 | 0.00 | -56.00 | 51.605 | 1.160 | 0.631 | 279.8 | 280.8 | 278.8 | 277.9 |
| 5 | 457.20 | 0.00 | -54.00 | 50.883 | 1.301 | 0.759 | 279.8 | 280.9 | 278.9 | 277.9 |
| 6 | 457.20 | 0.00 | -52.00 | 51.740 | 1.461 | 0.886 | 279.8 | 281.1 | 278.8 | 277.6 |
| 7 | 457.20 | 0.00 | -50.00 | 51.550 | 1.659 | 0.926 | 279.8 | 281.3 | 278.9 | 277.6 |
| 8 | 457.20 | 0.00 | -48.00 | 51.716 | 1.798 | 1.029 | 279.8 | 281.4 | 278.8 | 277.4 |
| 9 | 457.20 | 0.00 | -46.00 | 51.275 | 1.955 | 1.101 | 279.8 | 281.5 | 278.8 | 277.2 |
| 10 | 457.20 | 0.00 | -44.00 | 51.240 | 2.167 | 1.225 | 279.8 | 281.5 | 278.9 | 277.2 |
| 11 | 457.20 | 0.00 | -42.00 | 51.610 | 2.301 | 1.331 | 279.8 | 281.6 | 278.7 | 276.9 |
| 12 | 457.20 | 0.00 | -40.00 | 51.773 | 2.557 | 1.518 | 279.8 | 281.7 | 278.8 | 276.8 |
| 13 | 457.20 | 0.00 | -38.00 | 51.509 | 2.766 | 1.551 | 279.9 | 281.7 | 278.9 | 276.7 |
| 14 | 457.20 | 0.00 | -36.00 | 51.340 | 2.987 | 1.693 | 279.9 | 281.8 | 278.9 | 276.5 |
| 15 | 457.20 | 0.00 | -34.00 | 51.666 | 3.230 | 1.872 | 280.0 | 281.9 | 278.9 | 276.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -32.00 | 51.681 | 3.440 | 1.938 | 280.0 | 281.9 | 278.9 | 276.2 |
| 17 | 457.20 | 0.00 | -30.00 | 51.663 | 3.529 | 2.087 | 280.1 | 281.9 | 278.8 | 276.0 |
| 18 | 457.20 | 0.00 | -28.00 | 51.229 | 3.754 | 2.147 | 280.1 | 282.0 | 279.0 | 276.0 |
| 19 | 457.20 | 0.00 | -26.00 | 51.360 | 3.800 | 2.221 | 280.1 | 282.0 | 278.9 | 275.9 |
| 20 | 457.20 | 0.00 | -24.00 | 51.780 | 4.074 | 2.360 | 280.1 | 282.0 | 278.9 | 275.7 |
| 21 | 457.20 | 0.00 | -22.00 | 51.527 | 4.223 | 2.405 | 280.1 | 282.0 | 278.9 | 275.6 |
| 22 | 457.20 | 0.00 | -20.00 | 51.579 | 4.242 | 2.482 | 280.1 | 282.0 | 278.9 | 275.6 |
| 23 | 457.20 | 0.00 | -18.00 | 51.052 | 4.446 | 2.563 | 280.1 | 282.0 | 278.8 | 275.3 |
| 24 | 457.20 | 0.00 | -16.00 | 51.282 | 4.571 | 2.610 | 280.2 | 282.1 | 278.9 | 275.3 |
| 25 | 457.20 | 0.00 | -14.00 | 51.632 | 4.625 | 2.663 | 280.2 | 282.0 | 278.9 | 275.3 |
| 26 | 457.20 | 0.00 | -12.00 | 51.487 | 4.529 | 2.640 | 280.3 | 282.1 | 279.0 | 275.4 |
| 27 | 457.20 | 0.00 | -10.00 | 51.654 | 4.577 | 2.659 | 280.3 | 282.1 | 278.9 | 275.3 |
| 28 | 457.20 | 0.00 | -8.00 | 51.240 | 4.566 | 2.617 | 280.4 | 282.1 | 279.0 | 275.4 |
| 29 | 457.20 | 0.00 | -6.00 | 51.253 | 4.557 | 2.634 | 280.5 | 282.1 | 279.1 | 275.5 |
| 30 | 457.20 | 0.00 | -4.00 | 51.674 | 4.556 | 2.629 | 280.5 | 282.1 | 279.1 | 275.5 |
| 31 | 457.20 | 0.00 | -2.00 | 51.536 | 4.352 | 2.503 | 280.6 | 282.1 | 279.1 | 275.7 |
| 32 | 457.20 | 0.00 | 0.00 | 51.177 | 4.253 | 2.465 | 280.6 | 282.1 | 279.1 | 275.8 |
| 33 | 457.20 | 0.00 | 2.00 | 51.695 | 4.177 | 2.419 | 280.6 | 282.1 | 279.2 | 275.9 |
| 34 | 457.20 | 0.00 | 4.00 | 51.371 | 4.066 | 2.328 | 280.6 | 282.1 | 279.2 | 276.0 |
| 35 | 457.20 | 0.00 | 6.00 | 51.540 | 3.864 | 2.265 | 280.7 | 282.1 | 279.1 | 276.1 |
| 36 | 457.20 | 0.00 | 8.00 | 51.637 | 3.734 | 2.175 | 280.7 | 282.1 | 279.3 | 276.4 |
| 37 | 457.20 | 0.00 | 10.00 | 51.548 | 3.622 | 2.071 | 280.7 | 282.1 | 279.0 | 276.1 |

| CONFIGURATION | $X/D_E$ | $T_j/T_o$ | $M_j$ | HORIZONTAL | VERTICAL | DIAGONAL -14° | DIAGONAL +14° |
|---|---|---|---|---|---|---|---|
| 0 - 0 (BASELINE) | 9 | 1 | 1.15 | TAB185T | TAB203T | TAB209T | TAB221T |
| I - A | 9 | 1 | 1.15 | TAB187T | TAB204T | TAB210T | TAB223T |
| I - B | 9 | 1 | 1.15 | TAB196T | TAB195T | TAB213T | TAB226T |
| III - A | 9 | 1 | 1.15 | TAB189T | TAB205T | TAB215T | TAB224T |
| III - B | 9 | 1 | 1.15 | TAB198T | TAB197T | TAB214T | TAB227T |
| II - A | 9 | 1 | 1.15 | TAB191T | TAB206T | TAB220T | TAB228T |
| II - B | 9 | 1 | 1.15 | TAB200T | TAB199T | TAB219T | TAB231T |
| IV - A | 9 | 1 | 1.15 | TAB193T | TAB207T | TAB217T | TAB230T |
| IV - B | 9 | 1 | 1.15 | TAB202T | TAB201T | TAB218T | TAB232T |
| VI - A | 9 | 1 | 1.15 | TAB243T | TAB244T | TAB258T | TAB234T |
| VI - B | 9 | 1 | 1.15 | TAB251T | TAB250T | TAB263T | TAB236T |
| VII - A | 9 | 1 | 1.15 | TAB238T | TAB237T | TAB255T | TAB233T |
| VII - B | 9 | 1 | 1.15 | TAB247T | TAB246T | TAB262T | TAB235T |
| V - C | 9 | 1 | 1.15 | TAB278T | TAB277T | TAB259T | TAB266T |

Figure 10 Mixing Modification Test Conditions and Run Numbers - $M_j$=1.15

File : TAB185T

16-DEC-88
29-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, BASELINE

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.273 kPa

Mean gauged plenum pressure : 124.744 kPa
RMS gauged plenum pressure : 0.586 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 126.010 | 0.020 | 0.012 | 279.7 | 283.3 | 279.2 | 279.2 |
| 3 | 457.20 | -105.00 | 0.00 | 126.208 | 0.012 | 0.012 | 279.8 | 283.3 | 278.7 | 278.7 |
| 4 | 457.20 | -100.00 | 0.00 | 125.567 | 0.010 | 0.012 | 279.9 | 283.2 | 278.7 | 278.7 |
| 5 | 457.20 | -95.00 | 0.00 | 124.592 | 0.189 | 0.012 | 280.0 | 283.2 | 278.6 | 278.4 |
| 6 | 457.20 | -90.00 | 0.00 | 124.316 | 0.376 | 0.013 | 280.0 | 283.2 | 278.4 | 278.1 |
| 7 | 457.20 | -85.00 | 0.00 | 124.556 | 0.718 | 0.013 | 279.9 | 283.2 | 278.2 | 277.6 |
| 8 | 457.20 | -80.00 | 0.00 | 125.077 | 0.842 | 0.012 | 280.0 | 283.3 | 277.9 | 277.2 |
| 9 | 457.20 | -75.00 | 0.00 | 125.456 | 1.167 | 0.013 | 279.9 | 283.2 | 277.7 | 276.8 |
| 10 | 457.20 | -70.00 | 0.00 | 125.694 | 1.887 | 0.012 | 279.9 | 283.3 | 277.6 | 276.1 |
| 11 | 457.20 | -65.00 | 0.00 | 125.566 | 2.932 | 0.012 | 279.8 | 283.3 | 277.2 | 274.9 |
| 12 | 457.20 | -60.00 | 0.00 | 125.298 | 4.389 | 0.012 | 280.0 | 283.2 | 277.2 | 273.8 |
| 13 | 457.20 | -55.00 | 0.00 | 125.134 | 6.654 | 0.012 | 280.1 | 283.3 | 276.9 | 271.8 |
| 14 | 457.20 | -50.00 | 0.00 | 124.961 | 10.602 | 0.012 | 280.2 | 283.2 | 277.2 | 269.2 |
| 15 | 457.20 | -45.00 | 0.00 | 124.970 | 15.297 | 0.016 | 280.0 | 283.3 | 276.6 | 265.4 |
| 16 | 457.20 | -40.00 | 0.00 | 125.200 | 17.306 | 0.012 | 280.0 | 283.2 | 276.9 | 264.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 125.429 | 20.827 | 0.012 | 280.1 | 283.2 | 277.2 | 262.4 |
| 18 | 457.20 | -30.00 | 0.00 | 125.468 | 26.931 | 0.012 | 280.1 | 283.2 | 272.5 | 254.2 |
| 19 | 457.20 | -25.00 | 0.00 | 125.167 | 33.578 | 0.012 | 280.2 | 283.2 | 0.0 | 0.0 |
| 20 | 457.20 | -20.00 | 0.00 | 124.804 | 40.483 | 0.012 | 280.3 | 283.2 | 278.5 | 252.3 |
| 21 | 457.20 | -15.00 | 0.00 | 124.341 | 45.455 | 0.013 | 280.4 | 283.2 | 282.1 | 253.0 |
| 22 | 457.20 | -10.00 | 0.00 | 124.093 | 49.906 | 0.014 | 280.4 | 283.3 | 277.8 | 247.0 |
| 23 | 457.20 | -5.00 | 0.00 | 124.212 | 52.449 | 0.012 | 280.6 | 283.3 | 280.1 | 247.8 |
| 24 | 457.20 | 0.00 | 0.00 | 124.348 | 53.001 | 0.013 | 280.5 | 283.3 | 272.7 | 241.0 |
| 25 | 457.20 | 5.00 | 0.00 | 124.629 | 51.597 | 0.013 | 280.6 | 283.3 | 89.7 | 79.5 |
| 26 | 457.20 | 10.00 | 0.00 | 124.814 | 48.145 | 0.013 | 280.7 | 283.3 | 284.9 | 254.2 |
| 27 | 457.20 | 15.00 | 0.00 | 124.665 | 43.285 | 0.013 | 280.5 | 283.3 | 289.7 | 260.9 |
| 28 | 457.20 | 20.00 | 0.00 | 124.389 | 37.496 | 0.012 | 280.6 | 283.3 | 260.6 | 237.5 |
| 29 | 457.20 | 25.00 | 0.00 | 124.151 | 31.688 | 0.013 | 280.5 | 283.3 | 90.6 | 83.6 |
| 30 | 457.20 | 30.00 | 0.00 | 123.580 | 25.611 | 0.012 | 280.6 | 283.3 | 269.8 | 252.5 |
| 31 | 457.20 | 35.00 | 0.00 | 123.805 | 20.609 | 0.012 | 280.5 | 283.3 | 277.2 | 262.5 |
| 32 | 457.20 | 40.00 | 0.00 | 124.243 | 16.855 | 0.012 | 280.5 | 283.3 | 276.1 | 263.9 |
| 33 | 457.20 | 45.00 | 0.00 | 124.946 | 11.681 | 0.013 | 280.4 | 283.3 | 277.0 | 268.2 |
| 34 | 457.20 | 50.00 | 0.00 | 124.840 | 9.090 | 0.013 | 280.4 | 283.3 | 277.4 | 270.5 |
| 35 | 457.20 | 55.00 | 0.00 | 124.726 | 6.875 | 0.014 | 280.5 | 283.3 | 277.9 | 272.6 |
| 36 | 457.20 | 60.00 | 0.00 | 124.414 | 4.989 | 0.013 | 280.9 | 283.4 | 278.4 | 274.5 |
| 37 | 457.20 | 65.00 | 0.00 | 124.233 | 3.937 | 0.018 | 280.8 | 283.4 | 278.4 | 275.3 |
| 38 | 457.20 | 70.00 | 0.00 | 124.079 | 2.494 | 0.017 | 280.8 | 283.3 | 278.5 | 276.5 |
| 39 | 457.20 | 75.00 | 0.00 | 124.225 | 1.519 | 0.014 | 280.9 | 283.3 | 278.3 | 277.1 |
| 40 | 457.20 | 80.00 | 0.00 | 124.661 | 0.965 | 0.016 | 280.9 | 283.3 | 278.8 | 278.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.840 | 0.440 | 0.016 | 280.9 | 283.3 | 279.1 | 278.7 |
| 42 | 457.20 | 90.00 | 0.00 | 124.717 | 0.296 | 0.015 | 281.1 | 283.3 | 279.6 | 279.4 |
| 43 | 457.20 | 95.00 | 0.00 | 124.650 | 0.072 | 0.025 | 281.1 | 283.3 | 279.7 | 279.6 |
| 44 | 457.20 | 100.00 | 0.00 | 124.281 | 0.013 | 0.023 | 280.9 | 283.2 | 279.6 | 279.6 |
| 45 | 457.20 | 105.00 | 0.00 | 124.146 | 0.019 | 0.019 | 281.0 | 283.3 | 279.6 | 279.6 |
| 46 | 457.20 | 110.00 | 0.00 | 123.951 | 0.010 | 0.014 | 281.1 | 283.2 | 280.5 | 280.5 |

File : TAB203T 19-DEC-88
1-DEC-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Baseline

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.375 kPa

Mean gauged plenum pressure : 125.712 kPa
RMS gauged plenum pressure : 0.514 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 125.099 | 0.092 | 0.013 | 285.5 | 283.2 | 0.0 | 0.0 |
| 3 | 457.20 | 0.00 | -97.00 | 125.073 | 0.135 | 0.019 | 285.5 | 283.2 | 0.0 | 0.0 |
| 4 | 457.20 | 0.00 | -94.00 | 125.078 | 0.161 | 0.018 | 285.5 | 283.2 | 0.0 | 0.0 |
| 5 | 457.20 | 0.00 | -91.00 | 125.115 | 0.246 | 0.016 | 285.5 | 283.1 | 0.0 | 0.0 |
| 6 | 457.20 | 0.00 | -88.00 | 125.136 | 0.342 | 0.017 | 285.1 | 283.1 | 0.0 | 0.0 |
| 7 | 457.20 | 0.00 | -85.00 | 125.212 | 0.569 | 0.020 | 284.9 | 283.0 | 0.0 | 0.0 |
| 8 | 457.20 | 0.00 | -82.00 | 125.215 | 0.771 | 0.021 | 284.5 | 283.0 | 0.0 | 0.0 |
| 9 | 457.20 | 0.00 | -79.00 | 125.279 | 1.132 | 0.024 | 284.3 | 283.0 | 0.0 | 0.0 |
| 10 | 457.20 | 0.00 | -76.00 | 125.358 | 1.478 | 0.016 | 284.2 | 283.0 | 0.0 | 0.0 |
| 11 | 457.20 | 0.00 | -73.00 | 125.387 | 1.953 | 0.016 | 284.2 | 283.0 | 0.0 | 0.0 |
| 12 | 457.20 | 0.00 | -70.00 | 125.341 | 2.487 | 0.017 | 284.3 | 283.1 | 0.0 | 0.0 |
| 13 | 457.20 | 0.00 | -67.00 | 125.350 | 3.143 | 0.017 | 284.6 | 283.1 | 0.0 | 0.0 |
| 14 | 457.20 | 0.00 | -64.00 | 125.284 | 4.028 | 0.021 | 284.7 | 283.1 | 0.0 | 0.0 |
| 15 | 457.20 | 0.00 | -61.00 | 125.299 | 4.947 | 0.026 | 284.8 | 283.1 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 125.182 | 6.009 | 0.027 | 284.6 | 283.0 | 0.0 | 0.0 |
| 17 | 457.20 | 0.00 | -55.00 | 125.183 | 7.452 | 0.032 | 284.6 | 283.0 | 0.0 | 0.0 |
| 18 | 457.20 | 0.00 | -52.00 | 125.203 | 8.508 | 0.027 | 284.4 | 283.0 | 0.0 | 0.0 |
| 19 | 457.20 | 0.00 | -49.00 | 125.191 | 10.373 | 0.033 | 284.2 | 282.9 | 0.0 | 0.0 |
| 20 | 457.20 | 0.00 | -46.00 | 125.212 | 11.993 | 0.038 | 284.0 | 283.0 | 0.0 | 0.0 |
| 21 | 457.20 | 0.00 | -43.00 | 125.341 | 14.218 | 0.038 | 283.9 | 282.9 | 0.0 | 0.0 |
| 22 | 457.20 | 0.00 | -40.00 | 125.348 | 16.630 | 0.036 | 284.0 | 283.0 | 0.0 | 0.0 |
| 23 | 457.20 | 0.00 | -37.00 | 126.007 | 18.891 | 0.035 | 284.2 | 283.0 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | -34.00 | 126.309 | 21.491 | 0.035 | 284.1 | 283.0 | 0.0 | 0.0 |
| 25 | 457.20 | 0.00 | -31.00 | 126.364 | 24.571 | 0.043 | 283.9 | 283.0 | 0.0 | 0.0 |
| 26 | 457.20 | 0.00 | -28.00 | 126.317 | 27.638 | 0.041 | 284.0 | 283.0 | 0.0 | 0.0 |
| 27 | 457.20 | 0.00 | -25.00 | 126.323 | 30.873 | 0.041 | 284.2 | 283.1 | 0.0 | 0.0 |
| 28 | 457.20 | 0.00 | -22.00 | 126.318 | 34.735 | 0.038 | 284.6 | 283.1 | 0.0 | 0.0 |
| 29 | 457.20 | 0.00 | -19.00 | 126.338 | 38.634 | 0.046 | 284.6 | 283.1 | 0.0 | 0.0 |
| 30 | 457.20 | 0.00 | -16.00 | 126.266 | 42.262 | 0.046 | 284.8 | 283.1 | 0.0 | 0.0 |
| 31 | 457.20 | 0.00 | -13.00 | 126.275 | 45.722 | 0.046 | 284.9 | 283.1 | 0.0 | 0.0 |
| 32 | 457.20 | 0.00 | -10.00 | 126.154 | 48.681 | 0.046 | 284.8 | 283.0 | 0.0 | 0.0 |
| 33 | 457.20 | 0.00 | -7.00 | 126.148 | 51.025 | 0.043 | 285.0 | 283.1 | 0.0 | 0.0 |
| 34 | 457.20 | 0.00 | -4.00 | 126.130 | 52.718 | 0.039 | 285.2 | 283.2 | 0.0 | 0.0 |
| 35 | 457.20 | 0.00 | -1.00 | 126.106 | 53.317 | 0.042 | 285.2 | 283.2 | 0.0 | 0.0 |
| 36 | 457.20 | 0.00 | 2.00 | 126.102 | 52.916 | 0.040 | 285.3 | 283.2 | 0.0 | 0.0 |
| 37 | 457.20 | 0.00 | 5.00 | 126.123 | 51.445 | 0.041 | 285.2 | 283.2 | 0.0 | 0.0 |
| 38 | 457.20 | 0.00 | 8.00 | 126.143 | 49.247 | 0.034 | 285.1 | 283.2 | 0.0 | 0.0 |
| 39 | 457.20 | 0.00 | 11.00 | 126.137 | 46.884 | 0.027 | 285.2 | 283.2 | 0.0 | 0.0 |
| 40 | 457.20 | 0.00 | 14.00 | 126.158 | 43.333 | 0.027 | 285.6 | 283.3 | 0.0 | 0.0 |
| 41 | 457.20 | 0.00 | 17.00 | 126.206 | 39.684 | 0.030 | 285.4 | 283.2 | 110.8 | 100.5 |
| 42 | 457.20 | 0.00 | 20.00 | 126.330 | 35.825 | 0.028 | 285.4 | 283.2 | 0.0 | 0.0 |

File : TAB209T

22-DEC-88
5-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
BASELINE

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 99.086 kPa

Mean gauged plenum pressure : 124.678 kPa
RMS gauged plenum pressure : 0.490 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.074 | 0.062 | 0.013 | 282.7 | 281.7 | 0.0 | 0.0 |
| 3 | 457.20 | -105.00 | 0.00 | 124.651 | 0.023 | 0.014 | 282.8 | 281.7 | 0.0 | 0.0 |
| 4 | 457.20 | -100.00 | 0.00 | 124.603 | 0.014 | 0.013 | 282.9 | 281.8 | 0.0 | 0.0 |
| 5 | 457.20 | -95.00 | 0.00 | 124.634 | 0.078 | 0.016 | 282.9 | 281.7 | 0.0 | 0.0 |
| 6 | 457.20 | -90.00 | 0.00 | 124.641 | 0.165 | 0.015 | 282.8 | 281.8 | 0.0 | 0.0 |
| 7 | 457.20 | -85.00 | 0.00 | 124.604 | 0.436 | 0.015 | 283.0 | 281.7 | 0.0 | 0.0 |
| 8 | 457.20 | -80.00 | 0.00 | 124.685 | 0.841 | 0.015 | 283.0 | 281.8 | 0.0 | 0.0 |
| 9 | 457.20 | -75.00 | 0.00 | 124.759 | 1.307 | 0.014 | 283.0 | 281.8 | 0.0 | 0.0 |
| 10 | 457.20 | -70.00 | 0.00 | 124.689 | 2.131 | 0.013 | 282.9 | 281.7 | 0.0 | 0.0 |
| 11 | 457.20 | -65.00 | 0.00 | 124.586 | 3.500 | 0.013 | 283.0 | 281.8 | 0.0 | 0.0 |
| 12 | 457.20 | -60.00 | 0.00 | 124.464 | 5.759 | 0.016 | 282.9 | 281.8 | 0.0 | 0.0 |
| 13 | 457.20 | -55.00 | 0.00 | 124.428 | 7.913 | 0.013 | 283.0 | 281.8 | 0.0 | 0.0 |
| 14 | 457.20 | -50.00 | 0.00 | 124.299 | 10.274 | 0.014 | 282.9 | 281.7 | 0.0 | 0.0 |
| 15 | 457.20 | -45.00 | 0.00 | 124.209 | 13.524 | 0.015 | 282.9 | 281.7 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.164 | 17.445 | 0.013 | 283.0 | 281.8 | 0.0 | 0.0 |
| 17 | 457.20 | -35.00 | 0.00 | 123.910 | 21.942 | 0.015 | 282.8 | 281.8 | 0.0 | 0.0 |
| 18 | 457.20 | -30.00 | 0.00 | 125.621 | 24.953 | 0.015 | 282.7 | 281.7 | 0.0 | 0.0 |
| 19 | 457.20 | -25.00 | 0.00 | 125.554 | 30.922 | 0.013 | 283.0 | 281.8 | 0.0 | 0.0 |
| 20 | 457.20 | -20.00 | 0.00 | 125.433 | 37.666 | 0.015 | 283.1 | 281.8 | 0.0 | 0.0 |
| 21 | 457.20 | -15.00 | 0.00 | 125.376 | 43.464 | 0.015 | 283.3 | 281.8 | 0.0 | 0.0 |
| 22 | 457.20 | -10.00 | 0.00 | 125.327 | 48.737 | 0.018 | 283.3 | 281.8 | 0.0 | 0.0 |
| 23 | 457.20 | -5.00 | 0.00 | 125.305 | 52.279 | 0.022 | 283.3 | 281.8 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | 0.00 | 125.334 | 53.309 | 0.018 | 283.4 | 281.8 | 0.0 | 0.0 |
| 25 | 457.20 | 5.00 | 0.00 | 125.189 | 51.501 | 0.013 | 283.5 | 281.8 | 0.0 | 0.0 |
| 26 | 457.20 | 10.00 | 0.00 | 124.926 | 47.560 | 0.020 | 283.4 | 281.9 | 0.0 | 0.0 |
| 27 | 457.20 | 15.00 | 0.00 | 124.891 | 41.807 | 0.021 | 283.3 | 281.8 | 0.0 | 0.0 |
| 28 | 457.20 | 20.00 | 0.00 | 124.957 | 35.954 | 0.020 | 283.2 | 281.8 | 0.0 | 0.0 |
| 29 | 457.20 | 25.00 | 0.00 | 125.012 | 29.314 | 0.016 | 283.4 | 281.9 | 0.0 | 0.0 |
| 30 | 457.20 | 30.00 | 0.00 | 125.016 | 22.833 | 0.018 | 283.5 | 281.8 | 0.0 | 0.0 |
| 31 | 457.20 | 35.00 | 0.00 | 124.887 | 18.021 | 0.020 | 283.4 | 281.9 | 0.0 | 0.0 |
| 32 | 457.20 | 40.00 | 0.00 | 124.784 | 13.976 | 0.016 | 283.6 | 281.9 | 0.0 | 0.0 |
| 33 | 457.20 | 45.00 | 0.00 | 124.756 | 9.856 | 0.017 | 283.7 | 281.8 | 0.0 | 0.0 |
| 34 | 457.20 | 50.00 | 0.00 | 124.794 | 7.254 | 0.023 | 283.5 | 281.9 | 0.0 | 0.0 |
| 35 | 457.20 | 55.00 | 0.00 | 124.759 | 5.015 | 0.023 | 283.6 | 281.8 | 0.0 | 0.0 |
| 36 | 457.20 | 60.00 | 0.00 | 124.694 | 3.323 | 0.020 | 283.8 | 281.9 | 0.0 | 0.0 |
| 37 | 457.20 | 65.00 | 0.00 | 124.618 | 2.332 | 0.019 | 283.9 | 281.9 | 0.0 | 0.0 |
| 38 | 457.20 | 70.00 | 0.00 | 124.529 | 1.508 | 0.020 | 284.0 | 281.9 | 0.0 | 0.0 |
| 39 | 457.20 | 75.00 | 0.00 | 124.293 | 1.036 | 0.025 | 284.0 | 281.9 | 0.0 | 0.0 |
| 40 | 457.20 | 80.00 | 0.00 | 124.128 | 0.733 | 0.024 | 284.2 | 281.8 | 0.0 | 0.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.018 | 0.252 | 0.029 | 284.2 | 281.9 | 0.0 | 0.0 |
| 42 | 457.20 | 90.00 | 0.00 | 124.089 | 0.194 | 0.030 | 284.1 | 281.9 | 0.0 | 0.0 |
| 43 | 457.20 | 95.00 | 0.00 | 124.124 | 0.042 | 0.030 | 284.0 | 281.9 | 0.0 | 0.0 |
| 44 | 457.20 | 100.00 | 0.00 | 124.087 | 0.014 | 0.030 | 284.0 | 281.9 | 0.0 | 0.0 |
| 45 | 457.20 | 105.00 | 0.00 | 124.103 | 0.009 | 0.030 | 284.1 | 281.9 | 0.0 | 0.0 |
| 46 | 457.20 | 110.00 | 0.00 | 124.103 | 0.010 | 0.027 | 284.2 | 281.9 | 0.0 | 0.0 |

File : TAB221T 8-DEC-88
8-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Baseline, +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.578 kPa

Mean gauged plenum pressure : 124.996 kPa
RMS gauged plenum pressure : 0.450 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.308 | 0.020 | 0.012 | 288.7 | 282.3 | 287.4 | 287.4 |
| 3 | 457.20 | -105.00 | 0.00 | 125.294 | 0.011 | 0.012 | 288.9 | 282.3 | 287.6 | 287.6 |
| 4 | 457.20 | -100.00 | 0.00 | 125.195 | 0.011 | 0.012 | 288.9 | 282.3 | 287.8 | 287.8 |
| 5 | 457.20 | -95.00 | 0.00 | 125.249 | 0.009 | 0.012 | 288.7 | 282.3 | 287.7 | 287.7 |
| 6 | 457.20 | -90.00 | 0.00 | 125.603 | 0.043 | 0.014 | 288.7 | 282.3 | 287.7 | 287.7 |
| 7 | 457.20 | -85.00 | 0.00 | 125.861 | 0.304 | 0.012 | 288.7 | 282.3 | 287.7 | 287.4 |
| 8 | 457.20 | -80.00 | 0.00 | 125.921 | 0.540 | 0.012 | 288.8 | 282.3 | 287.7 | 287.3 |
| 9 | 457.20 | -75.00 | 0.00 | 125.678 | 1.031 | 0.012 | 288.9 | 282.3 | 287.8 | 286.9 |
| 10 | 457.20 | -70.00 | 0.00 | 125.308 | 1.658 | 0.012 | 289.0 | 282.3 | 287.9 | 286.5 |
| 11 | 457.20 | -65.00 | 0.00 | 125.231 | 2.605 | 0.012 | 289.0 | 282.3 | 287.9 | 285.8 |
| 12 | 457.20 | -60.00 | 0.00 | 125.419 | 3.762 | 0.012 | 289.0 | 282.3 | 288.0 | 284.9 |
| 13 | 457.20 | -55.00 | 0.00 | 125.806 | 5.663 | 0.012 | 289.0 | 282.3 | 288.0 | 283.4 |
| 14 | 457.20 | -50.00 | 0.00 | 125.549 | 8.425 | 0.012 | 289.1 | 282.3 | 288.0 | 281.3 |
| 15 | 457.20 | -45.00 | 0.00 | 125.092 | 11.504 | 0.012 | 289.2 | 282.3 | 288.0 | 279.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.923 | 14.547 | 0.012 | 289.2 | 282.2 | 288.0 | 276.9 |
| 17 | 457.20 | -35.00 | 0.00 | 124.804 | 19.376 | 0.012 | 289.1 | 282.3 | 288.0 | 273.6 |
| 18 | 457.20 | -30.00 | 0.00 | 124.830 | 24.078 | 0.012 | 289.1 | 282.3 | 288.0 | 270.5 |
| 19 | 457.20 | -25.00 | 0.00 | 124.719 | 30.492 | 0.012 | 289.3 | 282.2 | 288.0 | 266.6 |
| 20 | 457.20 | -20.00 | 0.00 | 124.606 | 37.485 | 0.012 | 289.2 | 282.3 | 287.9 | 262.5 |
| 21 | 457.20 | -15.00 | 0.00 | 124.381 | 43.533 | 0.012 | 289.2 | 282.3 | 287.9 | 259.3 |
| 22 | 457.20 | -10.00 | 0.00 | 124.326 | 48.605 | 0.012 | 289.3 | 282.3 | 287.9 | 256.7 |
| 23 | 457.20 | -5.00 | 0.00 | 124.564 | 51.542 | 0.012 | 289.4 | 282.3 | 287.9 | 255.2 |
| 24 | 457.20 | 0.00 | 0.00 | 124.665 | 52.592 | 0.012 | 289.4 | 282.3 | 287.9 | 254.7 |
| 25 | 457.20 | 5.00 | 0.00 | 124.640 | 51.725 | 0.012 | 289.4 | 282.3 | 287.9 | 255.1 |
| 26 | 457.20 | 10.00 | 0.00 | 124.241 | 48.669 | 0.012 | 289.4 | 282.3 | 288.0 | 256.7 |
| 27 | 457.20 | 15.00 | 0.00 | 124.009 | 44.722 | 0.012 | 289.3 | 282.3 | 288.0 | 258.7 |
| 28 | 457.20 | 20.00 | 0.00 | 123.822 | 39.268 | 0.012 | 289.4 | 282.2 | 288.1 | 261.7 |
| 29 | 457.20 | 25.00 | 0.00 | 124.461 | 31.972 | 0.012 | 289.5 | 282.3 | 288.2 | 265.9 |
| 30 | 457.20 | 30.00 | 0.00 | 124.855 | 25.342 | 0.012 | 289.5 | 282.3 | 288.1 | 269.8 |
| 31 | 457.20 | 35.00 | 0.00 | 124.918 | 20.050 | 0.012 | 289.6 | 282.3 | 288.1 | 273.2 |
| 32 | 457.20 | 40.00 | 0.00 | 124.887 | 14.367 | 0.012 | 290.4 | 282.3 | 288.3 | 277.3 |
| 33 | 457.20 | 45.00 | 0.00 | 124.951 | 11.477 | 0.012 | 290.8 | 282.2 | 288.4 | 279.5 |
| 34 | 457.20 | 50.00 | 0.00 | 125.151 | 8.562 | 0.012 | 291.0 | 282.3 | 288.4 | 281.6 |
| 35 | 457.20 | 55.00 | 0.00 | 125.147 | 6.301 | 0.012 | 290.9 | 282.3 | 288.4 | 283.3 |
| 36 | 457.20 | 60.00 | 0.00 | 125.110 | 4.057 | 0.012 | 291.1 | 282.3 | 288.4 | 285.1 |
| 37 | 457.20 | 65.00 | 0.00 | 124.959 | 2.678 | 0.012 | 291.0 | 282.3 | 288.5 | 286.3 |
| 38 | 457.20 | 70.00 | 0.00 | 124.941 | 1.768 | 0.013 | 290.3 | 282.3 | 288.5 | 287.0 |
| 39 | 457.20 | 75.00 | 0.00 | 125.014 | 1.158 | 0.012 | 290.0 | 282.3 | 288.5 | 287.5 |
| 40 | 457.20 | 80.00 | 0.00 | 125.053 | 0.655 | 0.012 | 289.7 | 282.3 | 288.5 | 288.0 |
| 41 | 457.20 | 85.00 | 0.00 | 125.073 | 0.209 | 0.012 | 289.9 | 282.3 | 288.5 | 288.3 |
| 42 | 457.20 | 90.00 | 0.00 | 124.916 | 0.051 | 0.012 | 289.9 | 282.3 | 288.6 | 288.6 |
| 43 | 457.20 | 95.00 | 0.00 | 124.910 | 0.012 | 0.012 | 289.8 | 282.3 | 288.6 | 288.6 |
| 44 | 457.20 | 100.00 | 0.00 | 125.023 | 0.010 | 0.012 | 289.8 | 282.3 | 288.6 | 288.6 |
| 45 | 457.20 | 105.00 | 0.00 | 125.056 | 0.009 | 0.013 | 289.8 | 282.3 | 288.6 | 288.6 |
| 46 | 457.20 | 110.00 | 0.00 | 125.048 | 0.009 | 0.012 | 289.9 | 282.3 | 288.5 | 288.5 |

File : TAB187T

17-DEC-88
29-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config I(a)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.781 kPa

Mean gauged plenum pressure : 126.198 kPa
RMS gauged plenum pressure : 1.211 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.197 | 0.244 | 0.012 | 285.5 | 283.8 | 283.9 | 283.7 |
| 3 | 457.20 | -105.00 | 0.00 | 124.231 | 0.451 | 0.012 | 285.6 | 283.8 | 284.0 | 283.6 |
| 4 | 457.20 | -100.00 | 0.00 | 124.475 | 0.743 | 0.012 | 285.7 | 283.9 | 283.6 | 283.0 |
| 5 | 457.20 | -95.00 | 0.00 | 125.574 | 0.933 | 0.012 | 285.8 | 283.9 | 283.7 | 282.9 |
| 6 | 457.20 | -90.00 | 0.00 | 126.589 | 1.579 | 0.013 | 285.6 | 283.9 | 283.0 | 281.7 |
| 7 | 457.20 | -85.00 | 0.00 | 126.770 | 2.477 | 0.013 | 285.4 | 283.9 | 282.0 | 280.0 |
| 8 | 457.20 | -80.00 | 0.00 | 125.888 | 3.758 | 0.012 | 285.5 | 283.9 | 282.5 | 279.5 |
| 9 | 457.20 | -75.00 | 0.00 | 125.055 | 5.609 | 0.012 | 285.9 | 283.9 | 282.7 | 278.3 |
| 10 | 457.20 | -70.00 | 0.00 | 125.778 | 7.375 | 0.012 | 286.0 | 283.9 | 282.5 | 276.7 |
| 11 | 457.20 | -65.00 | 0.00 | 126.778 | 9.484 | 0.012 | 286.2 | 284.0 | 282.6 | 275.3 |
| 12 | 457.20 | -60.00 | 0.00 | 127.728 | 11.925 | 0.013 | 286.0 | 284.0 | 281.7 | 272.7 |
| 13 | 457.20 | -55.00 | 0.00 | 128.344 | 14.929 | 0.015 | 285.9 | 284.0 | 281.5 | 270.4 |
| 14 | 457.20 | -50.00 | 0.00 | 127.804 | 18.744 | 0.013 | 286.0 | 283.9 | 281.2 | 267.6 |
| 15 | 457.20 | -45.00 | 0.00 | 126.921 | 24.334 | 0.012 | 286.1 | 284.0 | 278.0 | 261.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 126.444 | 29.104 | 0.012 | 286.2 | 284.0 | 281.6 | 261.5 |
| 17 | 457.20 | -35.00 | 0.00 | 126.475 | 34.293 | 0.012 | 286.1 | 284.0 | 282.7 | 259.6 |
| 18 | 457.20 | -30.00 | 0.00 | 126.874 | 38.362 | 0.012 | 285.8 | 283.9 | 281.6 | 256.3 |
| 19 | 457.20 | -25.00 | 0.00 | 127.553 | 40.022 | 0.012 | 285.9 | 284.0 | 281.6 | 255.5 |
| 20 | 457.20 | -20.00 | 0.00 | 128.018 | 39.643 | 0.012 | 286.0 | 283.9 | 284.1 | 257.9 |
| 21 | 457.20 | -15.00 | 0.00 | 128.080 | 37.079 | 0.012 | 286.2 | 284.0 | 280.7 | 256.2 |
| 22 | 457.20 | -10.00 | 0.00 | 127.481 | 34.950 | 0.013 | 286.1 | 283.9 | 287.8 | 263.9 |
| 23 | 457.20 | -5.00 | 0.00 | 126.896 | 33.002 | 0.012 | 286.2 | 283.9 | 282.1 | 259.7 |
| 24 | 457.20 | 0.00 | 0.00 | 126.453 | 32.171 | 0.012 | 286.2 | 283.9 | 277.4 | 255.9 |
| 25 | 457.20 | 5.00 | 0.00 | 126.268 | 32.353 | 0.012 | 286.0 | 283.9 | 281.8 | 259.8 |
| 26 | 457.20 | 10.00 | 0.00 | 127.228 | 34.890 | 0.012 | 286.1 | 283.9 | 282.2 | 258.8 |
| 27 | 457.20 | 15.00 | 0.00 | 128.224 | 37.927 | 0.012 | 286.1 | 283.9 | 282.2 | 257.1 |
| 28 | 457.20 | 20.00 | 0.00 | 128.620 | 39.908 | 0.012 | 286.2 | 283.9 | 291.1 | 264.1 |
| 29 | 457.20 | 25.00 | 0.00 | 126.834 | 38.180 | 0.012 | 286.2 | 283.9 | 0.0 | 0.0 |
| 30 | 457.20 | 30.00 | 0.00 | 125.924 | 34.423 | 0.012 | 286.1 | 283.9 | 0.0 | 0.0 |
| 31 | 457.20 | 35.00 | 0.00 | 125.253 | 30.659 | 0.012 | 286.1 | 283.9 | 0.0 | 0.0 |
| 32 | 457.20 | 40.00 | 0.00 | 125.003 | 24.535 | 0.012 | 286.1 | 283.9 | 117.1 | 109.9 |
| 33 | 457.20 | 45.00 | 0.00 | 125.508 | 18.993 | 0.012 | 286.2 | 283.9 | 0.0 | 0.0 |
| 34 | 457.20 | 50.00 | 0.00 | 126.182 | 13.921 | 0.013 | 286.1 | 283.9 | 0.0 | 0.0 |
| 35 | 457.20 | 55.00 | 0.00 | 126.702 | 10.848 | 0.013 | 286.1 | 283.9 | 0.0 | 0.0 |
| 36 | 457.20 | 60.00 | 0.00 | 126.631 | 8.128 | 0.012 | 286.2 | 283.9 | 0.0 | 0.0 |
| 37 | 457.20 | 65.00 | 0.00 | 126.060 | 5.850 | 0.012 | 286.3 | 283.9 | 0.0 | 0.0 |
| 38 | 457.20 | 70.00 | 0.00 | 125.481 | 4.125 | 0.014 | 286.2 | 283.9 | 0.0 | 0.0 |
| 39 | 457.20 | 75.00 | 0.00 | 124.753 | 3.120 | 0.012 | 286.2 | 283.9 | 0.0 | 0.0 |
| 40 | 457.20 | 80.00 | 0.00 | 124.901 | 2.314 | 0.012 | 286.4 | 283.9 | 0.0 | 0.0 |
| 41 | 457.20 | 85.00 | 0.00 | 125.364 | 1.346 | 0.012 | 286.3 | 283.9 | 0.0 | 0.0 |
| 42 | 457.20 | 90.00 | 0.00 | 125.361 | 0.858 | 0.014 | 286.3 | 283.9 | 0.0 | 0.0 |
| 43 | 457.20 | 95.00 | 0.00 | 125.596 | 0.362 | 0.013 | 286.5 | 284.0 | 0.0 | 0.0 |
| 44 | 457.20 | 100.00 | 0.00 | 125.181 | 0.224 | 0.014 | 286.5 | 283.9 | 0.0 | 0.0 |
| 45 | 457.20 | 105.00 | 0.00 | 124.663 | 0.096 | 0.017 | 286.3 | 283.9 | 0.0 | 0.0 |
| 46 | 457.20 | 110.00 | 0.00 | 124.095 | 0.019 | 0.019 | 286.3 | 283.9 | 285.1 | 285.1 |

File : TAB204T 19-DEC-88
1-DEC-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config I(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.341 kPa

Mean gauged plenum pressure : 125.042 kPa
RMS gauged plenum pressure : 0.758 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 123.881 | 0.014 | 0.012 | 285.5 | 283.3 | 284.4 | 284.4 |
| 3 | 457.20 | 0.00 | -97.00 | 125.126 | 0.012 | 0.012 | 285.5 | 283.3 | 284.4 | 284.4 |
| 4 | 457.20 | 0.00 | -94.00 | 125.160 | 0.010 | 0.012 | 285.5 | 283.3 | 284.3 | 284.3 |
| 5 | 457.20 | 0.00 | -91.00 | 124.950 | 0.011 | 0.012 | 285.5 | 283.3 | 284.6 | 284.6 |
| 6 | 457.20 | 0.00 | -88.00 | 124.480 | 0.009 | 0.011 | 285.6 | 283.3 | 284.4 | 284.4 |
| 7 | 457.20 | 0.00 | -85.00 | 124.436 | 0.010 | 0.011 | 285.7 | 283.3 | 284.0 | 284.0 |
| 8 | 457.20 | 0.00 | -82.00 | 124.434 | 0.009 | 0.011 | 285.4 | 283.2 | 283.4 | 283.4 |
| 9 | 457.20 | 0.00 | -79.00 | 123.833 | 0.010 | 0.011 | 285.2 | 283.2 | 283.5 | 283.5 |
| 10 | 457.20 | 0.00 | -76.00 | 123.462 | 0.021 | 0.011 | 285.1 | 283.1 | 283.0 | 283.0 |
| 11 | 457.20 | 0.00 | -73.00 | 124.112 | 0.216 | 0.011 | 284.9 | 283.1 | 282.2 | 282.0 |
| 12 | 457.20 | 0.00 | -70.00 | 124.104 | 0.233 | 0.012 | 284.6 | 283.1 | 281.8 | 281.6 |
| 13 | 457.20 | 0.00 | -67.00 | 124.671 | 0.630 | 0.011 | 284.3 | 283.0 | 281.4 | 280.9 |
| 14 | 457.20 | 0.00 | -64.00 | 124.486 | 0.878 | 0.012 | 284.1 | 283.0 | 281.2 | 280.5 |
| 15 | 457.20 | 0.00 | -61.00 | 124.405 | 1.203 | 0.012 | 284.0 | 283.0 | 280.8 | 279.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 124.420 | 1.707 | 0.012 | 283.9 | 282.9 | 280.2 | 278.8 |
| 17 | 457.20 | 0.00 | -55.00 | 124.398 | 2.384 | 0.012 | 283.7 | 282.9 | 280.0 | 278.1 |
| 18 | 457.20 | 0.00 | -52.00 | 124.354 | 3.014 | 0.012 | 283.7 | 282.9 | 279.8 | 277.4 |
| 19 | 457.20 | 0.00 | -49.00 | 124.332 | 3.651 | 0.014 | 283.5 | 282.9 | 279.3 | 276.4 |
| 20 | 457.20 | 0.00 | -46.00 | 124.432 | 4.878 | 0.013 | 283.5 | 282.9 | 279.2 | 275.4 |
| 21 | 457.20 | 0.00 | -43.00 | 124.899 | 6.200 | 0.015 | 283.5 | 283.0 | 278.7 | 273.9 |
| 22 | 457.20 | 0.00 | -40.00 | 125.077 | 7.376 | 0.016 | 283.4 | 283.0 | 0.0 | 0.0 |
| 23 | 457.20 | 0.00 | -37.00 | 125.369 | 9.024 | 0.013 | 283.5 | 283.0 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | -34.00 | 125.657 | 11.127 | 0.018 | 283.7 | 283.0 | 0.0 | 0.0 |
| 25 | 457.20 | 0.00 | -31.00 | 125.388 | 12.775 | 0.026 | 283.6 | 283.0 | 0.0 | 0.0 |
| 26 | 457.20 | 0.00 | -28.00 | 125.007 | 14.355 | 0.027 | 283.6 | 283.0 | 0.0 | 0.0 |
| 27 | 457.20 | 0.00 | -25.00 | 125.029 | 17.472 | 0.028 | 284.0 | 283.1 | 0.0 | 0.0 |
| 28 | 457.20 | 0.00 | -22.00 | 125.020 | 19.681 | 0.031 | 284.0 | 283.0 | 0.0 | 0.0 |
| 29 | 457.20 | 0.00 | -19.00 | 125.157 | 21.470 | 0.028 | 284.3 | 283.1 | 0.0 | 0.0 |
| 30 | 457.20 | 0.00 | -16.00 | 125.578 | 24.656 | 0.030 | 284.3 | 283.1 | 0.0 | 0.0 |
| 31 | 457.20 | 0.00 | -13.00 | 125.757 | 27.005 | 0.034 | 284.3 | 283.1 | 0.0 | 0.0 |
| 32 | 457.20 | 0.00 | -10.00 | 125.803 | 29.138 | 0.036 | 284.4 | 283.1 | 0.0 | 0.0 |
| 33 | 457.20 | 0.00 | -7.00 | 125.935 | 30.702 | 0.036 | 284.5 | 283.1 | 0.0 | 0.0 |
| 34 | 457.20 | 0.00 | -4.00 | 125.918 | 31.677 | 0.032 | 284.4 | 283.1 | 0.0 | 0.0 |
| 35 | 457.20 | 0.00 | -1.00 | 125.965 | 32.402 | 0.033 | 284.4 | 283.1 | 0.0 | 0.0 |
| 36 | 457.20 | 0.00 | 2.00 | 126.016 | 31.337 | 0.027 | 284.5 | 283.1 | 0.0 | 0.0 |
| 37 | 457.20 | 0.00 | 5.00 | 126.060 | 30.939 | 0.028 | 284.4 | 283.2 | 0.0 | 0.0 |
| 38 | 457.20 | 0.00 | 8.00 | 126.718 | 29.583 | 0.023 | 284.6 | 283.2 | 0.0 | 0.0 |
| 39 | 457.20 | 0.00 | 11.00 | 125.752 | 27.327 | 0.024 | 284.5 | 283.1 | 0.0 | 0.0 |
| 40 | 457.20 | 0.00 | 14.00 | 125.742 | 25.444 | 0.023 | 284.6 | 283.2 | 0.0 | 0.0 |
| 41 | 457.20 | 0.00 | 17.00 | 125.754 | 23.236 | 0.019 | 284.8 | 283.2 | 191.7 | 180.4 |
| 42 | 457.20 | 0.00 | 20.00 | 125.679 | 20.843 | 0.019 | 284.7 | 283.2 | 0.0 | 0.0 |

File : TAB210T

28-MAR-89
5-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config I(a), -14 Degrees

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.849 kPa

Mean gauged plenum pressure : 126.106 kPa
RMS gauged plenum pressure : 0.868 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.673 | 0.053 | 0.013 | 286.8 | 282.4 | 0.0 | 0.0 |
| 3 | 457.20 | -105.00 | 0.00 | 124.605 | 0.226 | 0.016 | 286.9 | 282.4 | 0.0 | 0.0 |
| 4 | 457.20 | -100.00 | 0.00 | 125.131 | 0.433 | 0.016 | 286.9 | 282.4 | 0.0 | 0.0 |
| 5 | 457.20 | -95.00 | 0.00 | 125.781 | 0.690 | 0.015 | 287.0 | 282.4 | 0.0 | 0.0 |
| 6 | 457.20 | -90.00 | 0.00 | 124.939 | 1.084 | 0.016 | 287.0 | 282.4 | 0.0 | 0.0 |
| 7 | 457.20 | -85.00 | 0.00 | 125.014 | 1.862 | 0.020 | 287.1 | 282.4 | 0.0 | 0.0 |
| 8 | 457.20 | -80.00 | 0.00 | 125.574 | 2.668 | 0.017 | 286.9 | 282.4 | 0.0 | 0.0 |
| 9 | 457.20 | -75.00 | 0.00 | 126.548 | 4.327 | 0.016 | 287.1 | 282.4 | 0.0 | 0.0 |
| 10 | 457.20 | -70.00 | 0.00 | 125.247 | 5.514 | 0.020 | 287.0 | 282.4 | 0.0 | 0.0 |
| 11 | 457.20 | -65.00 | 0.00 | 125.323 | 7.773 | 0.018 | 287.0 | 282.4 | 0.0 | 0.0 |
| 12 | 457.20 | -60.00 | 0.00 | 125.322 | 9.784 | 0.021 | 287.1 | 282.4 | 0.0 | 0.0 |
| 13 | 457.20 | -55.00 | 0.00 | 125.336 | 13.908 | 0.017 | 287.3 | 282.4 | 0.0 | 0.0 |
| 14 | 457.20 | -50.00 | 0.00 | 125.343 | 16.090 | 0.017 | 287.2 | 282.4 | 0.0 | 0.0 |
| 15 | 457.20 | -45.00 | 0.00 | 125.322 | 19.969 | 0.019 | 287.1 | 282.4 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 125.308 | 25.213 | 0.023 | 286.8 | 282.4 | 0.0 | 0.0 |
| 17 | 457.20 | -35.00 | 0.00 | 125.240 | 30.894 | 0.023 | 286.9 | 282.4 | 0.0 | 0.0 |
| 18 | 457.20 | -30.00 | 0.00 | 125.270 | 35.403 | 0.015 | 287.0 | 282.4 | 0.0 | 0.0 |
| 19 | 457.20 | -25.00 | 0.00 | 125.312 | 38.072 | 0.014 | 287.0 | 282.4 | 0.0 | 0.0 |
| 20 | 457.20 | -20.00 | 0.00 | 125.340 | 39.578 | 0.013 | 287.1 | 282.4 | 0.0 | 0.0 |
| 21 | 457.20 | -15.00 | 0.00 | 125.362 | 38.449 | 0.021 | 286.9 | 282.4 | 0.0 | 0.0 |
| 22 | 457.20 | -10.00 | 0.00 | 125.704 | 36.485 | 0.017 | 286.9 | 282.4 | 0.0 | 0.0 |
| 23 | 457.20 | -5.00 | 0.00 | 125.674 | 34.501 | 0.021 | 286.8 | 282.3 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | 0.00 | 125.860 | 33.520 | 0.017 | 287.0 | 282.4 | 0.0 | 0.0 |
| 25 | 457.20 | 5.00 | 0.00 | 126.138 | 33.628 | 0.019 | 287.2 | 282.3 | 0.0 | 0.0 |
| 26 | 457.20 | 10.00 | 0.00 | 126.099 | 35.021 | 0.013 | 287.2 | 282.3 | 0.0 | 0.0 |
| 27 | 457.20 | 15.00 | 0.00 | 126.141 | 36.754 | 0.014 | 287.3 | 282.4 | 0.0 | 0.0 |
| 28 | 457.20 | 20.00 | 0.00 | 126.914 | 37.110 | 0.018 | 287.1 | 282.4 | 0.0 | 0.0 |
| 29 | 457.20 | 25.00 | 0.00 | 126.846 | 35.705 | 0.022 | 287.1 | 282.3 | 0.0 | 0.0 |
| 30 | 457.20 | 30.00 | 0.00 | 126.790 | 32.012 | 0.019 | 287.3 | 282.3 | 0.0 | 0.0 |
| 31 | 457.20 | 35.00 | 0.00 | 126.811 | 26.221 | 0.019 | 287.3 | 282.3 | 0.0 | 0.0 |
| 32 | 457.20 | 40.00 | 0.00 | 126.824 | 19.827 | 0.018 | 287.2 | 282.3 | 0.0 | 0.0 |
| 33 | 457.20 | 45.00 | 0.00 | 126.826 | 15.104 | 0.020 | 287.1 | 282.3 | 0.0 | 0.0 |
| 34 | 457.20 | 50.00 | 0.00 | 126.835 | 11.861 | 0.018 | 287.0 | 282.3 | 0.0 | 0.0 |
| 35 | 457.20 | 55.00 | 0.00 | 126.860 | 8.524 | 0.017 | 287.0 | 282.3 | 0.0 | 0.0 |
| 36 | 457.20 | 60.00 | 0.00 | 126.861 | 6.050 | 0.020 | 287.0 | 282.3 | 0.0 | 0.0 |
| 37 | 457.20 | 65.00 | 0.00 | 126.845 | 4.385 | 0.017 | 287.1 | 282.3 | 0.0 | 0.0 |
| 38 | 457.20 | 70.00 | 0.00 | 126.812 | 2.767 | 0.023 | 286.8 | 282.3 | 0.0 | 0.0 |
| 39 | 457.20 | 75.00 | 0.00 | 126.817 | 1.842 | 0.014 | 287.0 | 282.3 | 0.0 | 0.0 |
| 40 | 457.20 | 80.00 | 0.00 | 127.484 | 0.998 | 0.020 | 287.1 | 282.3 | 0.0 | 0.0 |
| 41 | 457.20 | 85.00 | 0.00 | 127.453 | 0.865 | 0.016 | 287.1 | 282.4 | 0.0 | 0.0 |
| 42 | 457.20 | 90.00 | 0.00 | 127.427 | 0.286 | 0.013 | 287.3 | 282.3 | 0.0 | 0.0 |
| 43 | 457.20 | 95.00 | 0.00 | 127.402 | 0.141 | 0.016 | 287.5 | 282.3 | 0.0 | 0.0 |
| 44 | 457.20 | 100.00 | 0.00 | 127.347 | 0.086 | 0.014 | 287.6 | 282.4 | 0.0 | 0.0 |
| 45 | 457.20 | 105.00 | 0.00 | 127.208 | 0.009 | 0.016 | 287.6 | 282.4 | 0.0 | 0.0 |
| 46 | 457.20 | 110.00 | 0.00 | 126.878 | 0.011 | 0.018 | 287.4 | 282.3 | 0.0 | 0.0 |

File : TAB223T 8-DEC-88
8-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config I(a), +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.408 kPa

Mean gauged plenum pressure : 125.064 kPa
RMS gauged plenum pressure : 0.591 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.994 | 0.092 | 0.014 | 290.2 | 283.2 | 290.0 | 289.9 |
| 3 | 457.20 | -105.00 | 0.00 | 124.970 | 0.118 | 0.013 | 290.2 | 283.2 | 289.9 | 289.8 |
| 4 | 457.20 | -100.00 | 0.00 | 125.407 | 0.216 | 0.014 | 290.2 | 283.2 | 290.0 | 289.8 |
| 5 | 457.20 | -95.00 | 0.00 | 125.925 | 0.533 | 0.015 | 290.3 | 283.2 | 289.9 | 289.5 |
| 6 | 457.20 | -90.00 | 0.00 | 126.402 | 0.859 | 0.014 | 290.3 | 283.2 | 290.0 | 289.3 |
| 7 | 457.20 | -85.00 | 0.00 | 126.709 | 1.568 | 0.016 | 290.3 | 283.2 | 290.0 | 288.7 |
| 8 | 457.20 | -80.00 | 0.00 | 126.769 | 2.574 | 0.012 | 291.1 | 283.2 | 290.2 | 288.1 |
| 9 | 457.20 | -75.00 | 0.00 | 124.535 | 3.604 | 0.015 | 291.5 | 283.2 | 290.3 | 287.3 |
| 10 | 457.20 | -70.00 | 0.00 | 124.655 | 5.138 | 0.014 | 291.5 | 283.1 | 290.4 | 286.2 |
| 11 | 457.20 | -65.00 | 0.00 | 124.543 | 6.749 | 0.017 | 291.1 | 283.1 | 290.4 | 284.9 |
| 12 | 457.20 | -60.00 | 0.00 | 124.359 | 9.563 | 0.015 | 291.3 | 283.1 | 290.4 | 282.8 |
| 13 | 457.20 | -55.00 | 0.00 | 124.117 | 12.648 | 0.016 | 291.6 | 283.1 | 290.5 | 280.6 |
| 14 | 457.20 | -50.00 | 0.00 | 123.942 | 15.399 | 0.018 | 290.8 | 283.1 | 290.3 | 278.5 |
| 15 | 457.20 | -45.00 | 0.00 | 124.390 | 19.417 | 0.013 | 290.4 | 283.1 | 290.2 | 275.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 125.155 | 24.157 | 0.013 | 290.2 | 283.1 | 290.1 | 272.4 |
| 17 | 457.20 | -35.00 | 0.00 | 125.113 | 29.349 | 0.012 | 290.1 | 283.1 | 290.0 | 269.1 |
| 18 | 457.20 | -30.00 | 0.00 | 125.125 | 34.225 | 0.012 | 290.1 | 283.1 | 289.9 | 266.2 |
| 19 | 457.20 | -25.00 | 0.00 | 125.230 | 37.275 | 0.012 | 290.0 | 283.0 | 289.8 | 264.3 |
| 20 | 457.20 | -20.00 | 0.00 | 125.385 | 38.252 | 0.012 | 290.0 | 283.1 | 289.8 | 263.8 |
| 21 | 457.20 | -15.00 | 0.00 | 125.571 | 37.557 | 0.012 | 290.0 | 283.0 | 289.7 | 264.1 |
| 22 | 457.20 | -10.00 | 0.00 | 125.743 | 36.015 | 0.012 | 289.9 | 283.1 | 289.7 | 264.9 |
| 23 | 457.20 | -5.00 | 0.00 | 125.053 | 34.608 | 0.012 | 289.9 | 283.0 | 289.6 | 265.7 |
| 24 | 457.20 | 0.00 | 0.00 | 125.231 | 33.404 | 0.012 | 289.9 | 283.0 | 289.6 | 266.4 |
| 25 | 457.20 | 5.00 | 0.00 | 125.184 | 33.300 | 0.012 | 289.8 | 283.0 | 289.5 | 266.3 |
| 26 | 457.20 | 10.00 | 0.00 | 125.033 | 34.656 | 0.012 | 289.9 | 283.1 | 289.5 | 265.5 |
| 27 | 457.20 | 15.00 | 0.00 | 124.874 | 36.813 | 0.012 | 289.8 | 283.1 | 289.5 | 264.3 |
| 28 | 457.20 | 20.00 | 0.00 | 124.773 | 37.850 | 0.012 | 289.8 | 283.0 | 289.4 | 263.6 |
| 29 | 457.20 | 25.00 | 0.00 | 124.646 | 37.440 | 0.012 | 289.8 | 283.0 | 289.4 | 263.9 |
| 30 | 457.20 | 30.00 | 0.00 | 124.583 | 35.648 | 0.012 | 289.8 | 283.0 | 289.5 | 265.0 |
| 31 | 457.20 | 35.00 | 0.00 | 124.643 | 31.982 | 0.013 | 289.8 | 283.0 | 289.4 | 267.0 |
| 32 | 457.20 | 40.00 | 0.00 | 124.760 | 27.210 | 0.012 | 289.9 | 283.0 | 289.5 | 270.0 |
| 33 | 457.20 | 45.00 | 0.00 | 124.900 | 22.288 | 0.013 | 289.9 | 283.0 | 289.5 | 273.1 |
| 34 | 457.20 | 50.00 | 0.00 | 125.020 | 16.983 | 0.013 | 290.0 | 283.0 | 289.5 | 276.6 |
| 35 | 457.20 | 55.00 | 0.00 | 125.040 | 13.745 | 0.015 | 289.9 | 283.0 | 289.5 | 278.9 |
| 36 | 457.20 | 60.00 | 0.00 | 125.031 | 10.534 | 0.014 | 289.9 | 283.0 | 289.5 | 281.2 |
| 37 | 457.20 | 65.00 | 0.00 | 124.913 | 7.876 | 0.017 | 290.0 | 283.1 | 289.6 | 283.3 |
| 38 | 457.20 | 70.00 | 0.00 | 124.821 | 5.646 | 0.013 | 290.0 | 283.0 | 289.6 | 285.0 |
| 39 | 457.20 | 75.00 | 0.00 | 124.724 | 4.345 | 0.014 | 289.9 | 283.0 | 289.6 | 286.0 |
| 40 | 457.20 | 80.00 | 0.00 | 124.721 | 3.113 | 0.014 | 289.9 | 283.0 | 289.6 | 287.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.751 | 1.740 | 0.014 | 289.8 | 283.0 | 289.5 | 288.1 |
| 42 | 457.20 | 90.00 | 0.00 | 124.741 | 1.200 | 0.013 | 289.8 | 283.0 | 289.5 | 288.5 |
| 43 | 457.20 | 95.00 | 0.00 | 124.851 | 0.837 | 0.012 | 289.8 | 283.0 | 289.5 | 288.8 |
| 44 | 457.20 | 100.00 | 0.00 | 124.933 | 0.376 | 0.013 | 289.8 | 283.0 | 289.5 | 289.2 |
| 45 | 457.20 | 105.00 | 0.00 | 124.979 | 0.127 | 0.013 | 289.8 | 283.0 | 289.5 | 289.4 |
| 46 | 457.20 | 110.00 | 0.00 | 125.550 | 0.031 | 0.013 | 289.8 | 283.0 | 289.5 | 289.5 |

File : TAB196T

18-DEC-88
30-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config I(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.205 kPa

Mean gauged plenum pressure : 124.775 kPa
RMS gauged plenum pressure : 0.496 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.315 | 0.531 | 0.010 | 284.9 | 283.9 | 283.6 | 283.2 |
| 3 | 457.20 | -105.00 | 0.00 | 124.796 | 0.803 | 0.011 | 284.8 | 283.9 | 283.3 | 282.6 |
| 4 | 457.20 | -100.00 | 0.00 | 124.043 | 1.455 | 0.011 | 284.6 | 283.8 | 283.1 | 281.9 |
| 5 | 457.20 | -95.00 | 0.00 | 124.317 | 2.151 | 0.010 | 284.7 | 283.8 | 283.0 | 281.3 |
| 6 | 457.20 | -90.00 | 0.00 | 124.635 | 2.991 | 0.011 | 284.8 | 283.9 | 283.4 | 281.0 |
| 7 | 457.20 | -85.00 | 0.00 | 124.941 | 4.135 | 0.010 | 284.7 | 283.8 | 281.9 | 278.6 |
| 8 | 457.20 | -80.00 | 0.00 | 125.256 | 5.859 | 0.010 | 284.6 | 283.8 | 282.2 | 277.6 |
| 9 | 457.20 | -75.00 | 0.00 | 124.942 | 7.810 | 0.010 | 284.8 | 283.8 | 282.1 | 276.0 |
| 10 | 457.20 | -70.00 | 0.00 | 124.542 | 10.313 | 0.010 | 284.8 | 283.8 | 281.7 | 273.8 |
| 11 | 457.20 | -65.00 | 0.00 | 125.012 | 12.936 | 0.010 | 284.9 | 283.8 | 282.2 | 272.4 |
| 12 | 457.20 | -60.00 | 0.00 | 125.199 | 16.566 | 0.010 | 284.8 | 283.7 | 283.6 | 271.2 |
| 13 | 457.20 | -55.00 | 0.00 | 124.923 | 20.057 | 0.010 | 284.8 | 283.7 | 284.2 | 269.5 |
| 14 | 457.20 | -50.00 | 0.00 | 124.803 | 24.875 | 0.010 | 284.8 | 283.8 | 93.3 | 87.5 |
| 15 | 457.20 | -45.00 | 0.00 | 124.883 | 29.680 | 0.010 | 284.9 | 283.7 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.888 | 36.090 | 0.010 | 284.9 | 283.7 | 0.0 | 0.0 |
| 17 | 457.20 | -35.00 | 0.00 | 124.956 | 41.071 | 0.010 | 284.9 | 283.7 | 0.0 | 0.0 |
| 18 | 457.20 | -30.00 | 0.00 | 125.007 | 43.759 | 0.010 | 284.9 | 283.7 | 0.0 | 0.0 |
| 19 | 457.20 | -25.00 | 0.00 | 125.056 | 42.993 | 0.010 | 284.9 | 283.7 | 0.0 | 0.0 |
| 20 | 457.20 | -20.00 | 0.00 | 125.076 | 39.039 | 0.011 | 285.0 | 283.7 | 0.0 | 0.0 |
| 21 | 457.20 | -15.00 | 0.00 | 125.095 | 33.838 | 0.010 | 284.8 | 283.7 | 0.0 | 0.0 |
| 22 | 457.20 | -10.00 | 0.00 | 125.144 | 29.314 | 0.010 | 284.9 | 283.8 | 0.0 | 0.0 |
| 23 | 457.20 | -5.00 | 0.00 | 125.085 | 26.225 | 0.010 | 284.9 | 283.7 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | 0.00 | 125.078 | 25.479 | 0.010 | 285.2 | 283.7 | 0.0 | 0.0 |
| 25 | 457.20 | 5.00 | 0.00 | 125.093 | 27.236 | 0.010 | 285.2 | 283.8 | 0.0 | 0.0 |
| 26 | 457.20 | 10.00 | 0.00 | 125.114 | 30.733 | 0.010 | 285.1 | 283.7 | 0.0 | 0.0 |
| 27 | 457.20 | 15.00 | 0.00 | 125.084 | 35.682 | 0.011 | 284.9 | 283.7 | 0.0 | 0.0 |
| 28 | 457.20 | 20.00 | 0.00 | 125.111 | 40.956 | 0.011 | 284.7 | 283.6 | 0.0 | 0.0 |
| 29 | 457.20 | 25.00 | 0.00 | 125.130 | 42.381 | 0.010 | 284.5 | 283.7 | 0.0 | 0.0 |
| 30 | 457.20 | 30.00 | 0.00 | 125.132 | 41.415 | 0.011 | 284.4 | 283.6 | 0.0 | 0.0 |
| 31 | 457.20 | 35.00 | 0.00 | 125.117 | 36.862 | 0.010 | 284.4 | 283.7 | 0.0 | 0.0 |
| 32 | 457.20 | 40.00 | 0.00 | 125.192 | 30.543 | 0.010 | 284.4 | 283.6 | 0.0 | 0.0 |
| 33 | 457.20 | 45.00 | 0.00 | 125.233 | 24.547 | 0.011 | 284.4 | 283.6 | 0.0 | 0.0 |
| 34 | 457.20 | 50.00 | 0.00 | 124.517 | 18.789 | 0.010 | 284.4 | 283.7 | 0.0 | 0.0 |
| 35 | 457.20 | 55.00 | 0.00 | 124.389 | 14.049 | 0.011 | 284.4 | 283.7 | 0.0 | 0.0 |
| 36 | 457.20 | 60.00 | 0.00 | 124.448 | 10.785 | 0.011 | 284.5 | 283.6 | 0.0 | 0.0 |
| 37 | 457.20 | 65.00 | 0.00 | 124.442 | 8.448 | 0.011 | 284.6 | 283.7 | 0.0 | 0.0 |
| 38 | 457.20 | 70.00 | 0.00 | 124.466 | 6.481 | 0.011 | 284.4 | 283.7 | 0.0 | 0.0 |
| 39 | 457.20 | 75.00 | 0.00 | 124.419 | 4.740 | 0.011 | 284.3 | 283.6 | 0.0 | 0.0 |
| 40 | 457.20 | 80.00 | 0.00 | 124.209 | 3.673 | 0.011 | 284.3 | 283.6 | 0.0 | 0.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.014 | 2.537 | 0.012 | 284.3 | 283.7 | 0.0 | 0.0 |
| 42 | 457.20 | 90.00 | 0.00 | 123.892 | 1.853 | 0.011 | 284.3 | 283.7 | 0.0 | 0.0 |
| 43 | 457.20 | 95.00 | 0.00 | 123.864 | 0.988 | 0.012 | 284.3 | 283.7 | 0.0 | 0.0 |
| 44 | 457.20 | 100.00 | 0.00 | 123.951 | 0.539 | 0.012 | 284.2 | 283.6 | 0.0 | 0.0 |
| 45 | 457.20 | 105.00 | 0.00 | 124.047 | 0.365 | 0.012 | 284.2 | 283.7 | 0.0 | 0.0 |
| 46 | 457.20 | 110.00 | 0.00 | 124.130 | 0.151 | 0.013 | 284.2 | 283.7 | 0.0 | 0.0 |

File : TAB195T 18-DEC-88
30-NOV-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config I(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.273 kPa

Mean gauged plenum pressure : 124.923 kPa
RMS gauged plenum pressure : 0.415 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 124.535 | 0.081 | 0.012 | 283.5 | 283.3 | 0.0 | 0.0 |
| 3 | 457.20 | 0.00 | -97.00 | 124.676 | 0.039 | 0.012 | 283.5 | 283.4 | 0.0 | 0.0 |
| 4 | 457.20 | 0.00 | -94.00 | 124.740 | 0.027 | 0.012 | 283.6 | 283.4 | 0.0 | 0.0 |
| 5 | 457.20 | 0.00 | -91.00 | 124.900 | 0.016 | 0.012 | 283.5 | 283.4 | 0.0 | 0.0 |
| 6 | 457.20 | 0.00 | -88.00 | 124.983 | 0.013 | 0.012 | 283.5 | 283.4 | 0.0 | 0.0 |
| 7 | 457.20 | 0.00 | -85.00 | 125.096 | 0.012 | 0.012 | 283.5 | 283.4 | 0.0 | 0.0 |
| 8 | 457.20 | 0.00 | -82.00 | 125.055 | 0.010 | 0.012 | 283.5 | 283.5 | 0.0 | 0.0 |
| 9 | 457.20 | 0.00 | -79.00 | 125.057 | 0.010 | 0.013 | 283.5 | 283.5 | 0.0 | 0.0 |
| 10 | 457.20 | 0.00 | -76.00 | 125.209 | 0.011 | 0.013 | 283.5 | 283.5 | 0.0 | 0.0 |
| 11 | 457.20 | 0.00 | -73.00 | 125.324 | 0.021 | 0.012 | 283.5 | 283.5 | 0.0 | 0.0 |
| 12 | 457.20 | 0.00 | -70.00 | 125.221 | 0.181 | 0.013 | 283.5 | 283.5 | 0.0 | 0.0 |
| 13 | 457.20 | 0.00 | -67.00 | 125.215 | 0.268 | 0.014 | 283.5 | 283.5 | 0.0 | 0.0 |
| 14 | 457.20 | 0.00 | -64.00 | 125.274 | 0.325 | 0.014 | 283.5 | 283.5 | 0.0 | 0.0 |
| 15 | 457.20 | 0.00 | -61.00 | 125.439 | 0.733 | 0.013 | 283.5 | 283.5 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 125.659 | 0.961 | 0.014 | 283.5 | 283.5 | 0.0 | 0.0 |
| 17 | 457.20 | 0.00 | -55.00 | 124.595 | 1.396 | 0.014 | 283.5 | 283.5 | 0.0 | 0.0 |
| 18 | 457.20 | 0.00 | -52.00 | 125.286 | 1.737 | 0.013 | 283.6 | 283.5 | 0.0 | 0.0 |
| 19 | 457.20 | 0.00 | -49.00 | 125.246 | 2.372 | 0.017 | 283.5 | 283.5 | 0.0 | 0.0 |
| 20 | 457.20 | 0.00 | -46.00 | 125.031 | 3.303 | 0.016 | 283.5 | 283.5 | 0.0 | 0.0 |
| 21 | 457.20 | 0.00 | -43.00 | 125.064 | 4.029 | 0.014 | 283.5 | 283.5 | 0.0 | 0.0 |
| 22 | 457.20 | 0.00 | -40.00 | 124.944 | 5.354 | 0.016 | 283.6 | 283.5 | 0.0 | 0.0 |
| 23 | 457.20 | 0.00 | -37.00 | 124.910 | 6.600 | 0.016 | 283.5 | 283.5 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | -34.00 | 125.206 | 8.176 | 0.016 | 283.6 | 283.5 | 0.0 | 0.0 |
| 25 | 457.20 | 0.00 | -31.00 | 125.488 | 9.647 | 0.015 | 283.6 | 283.5 | 0.0 | 0.0 |
| 26 | 457.20 | 0.00 | -28.00 | 125.499 | 11.430 | 0.017 | 283.6 | 283.5 | 0.0 | 0.0 |
| 27 | 457.20 | 0.00 | -25.00 | 125.338 | 13.546 | 0.019 | 283.5 | 283.5 | 0.0 | 0.0 |
| 28 | 457.20 | 0.00 | -22.00 | 125.134 | 15.571 | 0.016 | 283.6 | 283.5 | 0.0 | 0.0 |
| 29 | 457.20 | 0.00 | -19.00 | 124.909 | 17.649 | 0.018 | 283.6 | 283.5 | 0.0 | 0.0 |
| 30 | 457.20 | 0.00 | -16.00 | 124.789 | 19.667 | 0.015 | 283.6 | 283.4 | 0.0 | 0.0 |
| 31 | 457.20 | 0.00 | -13.00 | 124.984 | 21.653 | 0.016 | 283.6 | 283.4 | 0.0 | 0.0 |
| 32 | 457.20 | 0.00 | -10.00 | 125.196 | 23.612 | 0.015 | 283.6 | 283.5 | 0.0 | 0.0 |
| 33 | 457.20 | 0.00 | -7.00 | 124.554 | 25.067 | 0.016 | 283.6 | 283.4 | 0.0 | 0.0 |
| 34 | 457.20 | 0.00 | -4.00 | 124.710 | 25.473 | 0.017 | 283.6 | 283.4 | 0.0 | 0.0 |
| 35 | 457.20 | 0.00 | -1.00 | 124.729 | 25.840 | 0.017 | 283.5 | 283.4 | 0.0 | 0.0 |
| 36 | 457.20 | 0.00 | 2.00 | 124.550 | 25.938 | 0.017 | 283.6 | 283.4 | 0.0 | 0.0 |
| 37 | 457.20 | 0.00 | 5.00 | 124.338 | 24.984 | 0.018 | 283.6 | 283.4 | 0.0 | 0.0 |
| 38 | 457.20 | 0.00 | 8.00 | 124.112 | 23.491 | 0.016 | 283.6 | 283.4 | 0.0 | 0.0 |
| 39 | 457.20 | 0.00 | 11.00 | 124.207 | 22.083 | 0.017 | 283.6 | 283.4 | 0.0 | 0.0 |
| 40 | 457.20 | 0.00 | 14.00 | 124.391 | 20.313 | 0.013 | 283.6 | 283.5 | 0.0 | 0.0 |
| 41 | 457.20 | 0.00 | 17.00 | 124.580 | 17.957 | 0.015 | 283.7 | 283.5 | 0.0 | 0.0 |
| 42 | 457.20 | 0.00 | 20.00 | 124.700 | 15.778 | 0.017 | 283.7 | 283.5 | 0.0 | 0.0 |

File : TAB213T 6-DEC-88
6-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB,PLTDMN

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.815 kPa

Mean gauged plenum pressure : 124.937 kPa
RMS gauged plenum pressure : 0.772 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.167 | 0.338 | 0.012 | 284.4 | 281.3 | 282.8 | 282.5 |
| 3 | 457.20 | -105.00 | 0.00 | 125.109 | 0.423 | 0.012 | 284.4 | 281.5 | 282.8 | 282.5 |
| 4 | 457.20 | -100.00 | 0.00 | 125.109 | 0.678 | 0.012 | 284.5 | 281.5 | 282.7 | 282.1 |
| 5 | 457.20 | -95.00 | 0.00 | 125.020 | 1.233 | 0.012 | 284.4 | 281.7 | 282.2 | 281.2 |
| 6 | 457.20 | -90.00 | 0.00 | 124.208 | 1.983 | 0.011 | 284.5 | 281.7 | 281.7 | 280.1 |
| 7 | 457.20 | -85.00 | 0.00 | 123.420 | 2.791 | 0.012 | 284.4 | 281.8 | 281.5 | 279.3 |
| 8 | 457.20 | -80.00 | 0.00 | 123.483 | 4.125 | 0.011 | 284.6 | 281.8 | 281.0 | 277.7 |
| 9 | 457.20 | -75.00 | 0.00 | 123.567 | 6.116 | 0.011 | 284.6 | 281.9 | 281.0 | 276.2 |
| 10 | 457.20 | -70.00 | 0.00 | 123.575 | 8.030 | 0.011 | 284.7 | 281.9 | 280.3 | 274.1 |
| 11 | 457.20 | -65.00 | 0.00 | 123.689 | 10.482 | 0.011 | 284.7 | 281.9 | 279.8 | 271.8 |
| 12 | 457.20 | -60.00 | 0.00 | 123.737 | 12.654 | 0.011 | 284.7 | 281.9 | 279.4 | 269.9 |
| 13 | 457.20 | -55.00 | 0.00 | 123.779 | 15.894 | 0.011 | 284.6 | 281.9 | 278.7 | 267.0 |
| 14 | 457.20 | -50.00 | 0.00 | 123.805 | 19.490 | 0.011 | 284.4 | 282.0 | 278.4 | 264.4 |
| 15 | 457.20 | -45.00 | 0.00 | 123.787 | 24.479 | 0.011 | 284.4 | 281.9 | 278.4 | 261.3 |
| 16 | 457.20 | -40.00 | 0.00 | 123.747 | 30.615 | 0.011 | 284.6 | 282.0 | 278.2 | 257.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 124.916 | 36.192 | 0.012 | 284.6 | 282.0 | 278.5 | 254.7 |
| 18 | 457.20 | -30.00 | 0.00 | 125.457 | 39.473 | 0.012 | 284.6 | 282.0 | 279.1 | 253.5 |
| 19 | 457.20 | -25.00 | 0.00 | 125.559 | 40.565 | 0.012 | 284.6 | 282.0 | 279.1 | 252.9 |
| 20 | 457.20 | -20.00 | 0.00 | 125.533 | 38.002 | 0.012 | 284.8 | 282.0 | 278.4 | 253.6 |
| 21 | 457.20 | -15.00 | 0.00 | 125.520 | 34.205 | 0.012 | 285.0 | 282.1 | 277.7 | 255.0 |
| 22 | 457.20 | -10.00 | 0.00 | 125.532 | 30.006 | 0.012 | 284.9 | 282.0 | 277.1 | 256.8 |
| 23 | 457.20 | -5.00 | 0.00 | 125.583 | 27.221 | 0.013 | 284.9 | 282.0 | 276.9 | 258.3 |
| 24 | 457.20 | 0.00 | 0.00 | 125.585 | 26.691 | 0.012 | 284.9 | 282.1 | 276.7 | 258.4 |
| 25 | 457.20 | 5.00 | 0.00 | 125.617 | 27.633 | 0.013 | 284.9 | 282.0 | 277.0 | 258.1 |
| 26 | 457.20 | 10.00 | 0.00 | 125.651 | 30.852 | 0.012 | 285.0 | 282.1 | 277.4 | 256.6 |
| 27 | 457.20 | 15.00 | 0.00 | 125.655 | 35.874 | 0.013 | 285.1 | 282.0 | 278.2 | 254.6 |
| 28 | 457.20 | 20.00 | 0.00 | 125.613 | 39.447 | 0.013 | 285.3 | 282.1 | 279.3 | 253.7 |
| 29 | 457.20 | 25.00 | 0.00 | 125.567 | 40.564 | 0.012 | 285.4 | 282.0 | 279.7 | 253.5 |
| 30 | 457.20 | 30.00 | 0.00 | 125.548 | 38.298 | 0.013 | 285.5 | 282.1 | 279.5 | 254.5 |
| 31 | 457.20 | 35.00 | 0.00 | 125.549 | 32.491 | 0.013 | 285.6 | 282.1 | 279.3 | 257.5 |
| 32 | 457.20 | 40.00 | 0.00 | 125.562 | 25.882 | 0.014 | 285.5 | 282.1 | 278.7 | 260.7 |
| 33 | 457.20 | 45.00 | 0.00 | 125.557 | 19.592 | 0.013 | 285.5 | 282.1 | 278.9 | 264.8 |
| 34 | 457.20 | 50.00 | 0.00 | 125.555 | 13.357 | 0.013 | 285.6 | 282.1 | 279.3 | 269.3 |
| 35 | 457.20 | 55.00 | 0.00 | 125.550 | 10.671 | 0.015 | 285.6 | 282.1 | 279.6 | 271.5 |
| 36 | 457.20 | 60.00 | 0.00 | 125.562 | 7.504 | 0.015 | 285.5 | 282.1 | 280.0 | 274.2 |
| 37 | 457.20 | 65.00 | 0.00 | 125.560 | 5.208 | 0.013 | 285.5 | 282.1 | 280.9 | 276.8 |
| 38 | 457.20 | 70.00 | 0.00 | 125.493 | 4.142 | 0.013 | 285.6 | 282.1 | 281.0 | 277.7 |
| 39 | 457.20 | 75.00 | 0.00 | 125.456 | 2.850 | 0.014 | 285.7 | 282.1 | 281.8 | 279.5 |
| 40 | 457.20 | 80.00 | 0.00 | 125.249 | 2.069 | 0.014 | 285.8 | 282.1 | 282.4 | 280.7 |
| 41 | 457.20 | 85.00 | 0.00 | 125.033 | 1.517 | 0.015 | 285.9 | 282.1 | 282.8 | 281.6 |
| 42 | 457.20 | 90.00 | 0.00 | 125.031 | 1.018 | 0.017 | 286.1 | 282.1 | 282.8 | 282.0 |
| 43 | 457.20 | 95.00 | 0.00 | 124.759 | 0.647 | 0.022 | 285.9 | 282.1 | 283.2 | 282.7 |
| 44 | 457.20 | 100.00 | 0.00 | 124.701 | 0.407 | 0.024 | 285.9 | 282.1 | 283.4 | 283.1 |
| 45 | 457.20 | 105.00 | 0.00 | 124.691 | 0.215 | 0.021 | 285.8 | 282.1 | 283.8 | 283.6 |
| 46 | 457.20 | 110.00 | 0.00 | 124.435 | 0.066 | 0.021 | 286.0 | 282.1 | 284.4 | 284.3 |

File : TAB226T 15-DEC-88
15-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config I(b), +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.442 kPa

Mean gauged plenum pressure : 125.468 kPa
RMS gauged plenum pressure : 1.069 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.912 | 0.324 | 0.051 | 280.7 | 283.3 | 280.6 | 280.3 |
| 3 | 457.20 | -105.00 | 0.00 | 126.007 | 0.494 | 0.054 | 280.7 | 283.4 | 280.7 | 280.3 |
| 4 | 457.20 | -100.00 | 0.00 | 126.061 | 0.833 | 0.051 | 280.8 | 283.5 | 280.8 | 280.1 |
| 5 | 457.20 | -95.00 | 0.00 | 126.214 | 1.300 | 0.055 | 280.8 | 283.6 | 280.8 | 279.7 |
| 6 | 457.20 | -90.00 | 0.00 | 126.313 | 1.949 | 0.057 | 280.9 | 283.6 | 280.9 | 279.3 |
| 7 | 457.20 | -85.00 | 0.00 | 126.389 | 2.905 | 0.063 | 280.9 | 283.7 | 280.9 | 278.6 |
| 8 | 457.20 | -80.00 | 0.00 | 126.521 | 4.080 | 0.070 | 280.9 | 283.7 | 280.9 | 277.7 |
| 9 | 457.20 | -75.00 | 0.00 | 126.547 | 5.612 | 0.069 | 281.0 | 283.8 | 280.9 | 276.5 |
| 10 | 457.20 | -70.00 | 0.00 | 126.588 | 7.206 | 0.072 | 281.0 | 283.8 | 281.0 | 275.4 |
| 11 | 457.20 | -65.00 | 0.00 | 126.548 | 9.663 | 0.074 | 281.0 | 283.8 | 281.0 | 273.6 |
| 12 | 457.20 | -60.00 | 0.00 | 126.529 | 11.911 | 0.075 | 281.1 | 283.9 | 281.1 | 272.1 |
| 13 | 457.20 | -55.00 | 0.00 | 126.412 | 15.817 | 0.077 | 281.1 | 283.9 | 281.1 | 269.4 |
| 14 | 457.20 | -50.00 | 0.00 | 126.342 | 20.109 | 0.080 | 281.1 | 283.9 | 281.0 | 266.4 |
| 15 | 457.20 | -45.00 | 0.00 | 126.376 | 25.244 | 0.079 | 281.3 | 284.0 | 281.1 | 263.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 126.235 | 31.695 | 0.081 | 281.3 | 284.0 | 280.8 | 259.2 |
| 17 | 457.20 | -35.00 | 0.00 | 126.126 | 37.047 | 0.079 | 281.3 | 283.9 | 281.1 | 256.5 |
| 18 | 457.20 | -30.00 | 0.00 | 126.101 | 40.352 | 0.079 | 281.4 | 284.0 | 281.0 | 254.7 |
| 19 | 457.20 | -25.00 | 0.00 | 126.111 | 41.555 | 0.081 | 281.4 | 284.0 | 281.2 | 254.2 |
| 20 | 457.20 | -20.00 | 0.00 | 126.158 | 38.513 | 0.084 | 281.5 | 284.0 | 281.2 | 255.8 |
| 21 | 457.20 | -15.00 | 0.00 | 126.244 | 34.404 | 0.075 | 281.6 | 284.0 | 280.9 | 257.8 |
| 22 | 457.20 | -10.00 | 0.00 | 126.239 | 29.804 | 0.078 | 281.7 | 284.0 | 280.7 | 260.2 |
| 23 | 457.20 | -5.00 | 0.00 | 126.188 | 27.185 | 0.079 | 281.7 | 284.0 | 280.8 | 261.9 |
| 24 | 457.20 | 0.00 | 0.00 | 126.032 | 25.847 | 0.080 | 281.7 | 284.0 | 280.8 | 262.7 |
| 25 | 457.20 | 5.00 | 0.00 | 125.849 | 26.426 | 0.077 | 281.9 | 284.0 | 280.7 | 262.2 |
| 26 | 457.20 | 10.00 | 0.00 | 125.720 | 29.211 | 0.073 | 281.9 | 284.0 | 280.7 | 260.6 |
| 27 | 457.20 | 15.00 | 0.00 | 125.574 | 32.901 | 0.076 | 282.0 | 284.0 | 280.9 | 258.6 |
| 28 | 457.20 | 20.00 | 0.00 | 125.392 | 37.202 | 0.072 | 282.0 | 284.0 | 281.1 | 256.4 |
| 29 | 457.20 | 25.00 | 0.00 | 125.162 | 39.970 | 0.077 | 282.0 | 284.0 | 281.6 | 255.4 |
| 30 | 457.20 | 30.00 | 0.00 | 124.918 | 39.642 | 0.071 | 282.1 | 284.0 | 281.7 | 255.7 |
| 31 | 457.20 | 35.00 | 0.00 | 124.579 | 36.492 | 0.068 | 282.1 | 284.0 | 281.8 | 257.5 |
| 32 | 457.20 | 40.00 | 0.00 | 124.097 | 31.261 | 0.066 | 282.1 | 284.0 | 281.8 | 260.4 |
| 33 | 457.20 | 45.00 | 0.00 | 123.717 | 25.970 | 0.062 | 282.1 | 283.9 | 281.5 | 263.2 |
| 34 | 457.20 | 50.00 | 0.00 | 123.734 | 20.933 | 0.063 | 282.3 | 284.0 | 281.7 | 266.6 |
| 35 | 457.20 | 55.00 | 0.00 | 124.660 | 16.783 | 0.061 | 282.3 | 284.0 | 282.0 | 269.6 |
| 36 | 457.20 | 60.00 | 0.00 | 124.494 | 13.672 | 0.054 | 282.4 | 284.0 | 282.0 | 271.7 |
| 37 | 457.20 | 65.00 | 0.00 | 124.242 | 10.287 | 0.056 | 282.4 | 284.0 | 282.1 | 274.2 |
| 38 | 457.20 | 70.00 | 0.00 | 123.593 | 7.538 | 0.047 | 282.5 | 284.0 | 282.1 | 276.2 |
| 39 | 457.20 | 75.00 | 0.00 | 125.387 | 6.164 | 0.049 | 282.6 | 284.0 | 282.2 | 277.3 |
| 40 | 457.20 | 80.00 | 0.00 | 125.102 | 4.867 | 0.043 | 282.6 | 284.0 | 282.2 | 278.3 |
| 41 | 457.20 | 85.00 | 0.00 | 124.905 | 3.389 | 0.042 | 282.6 | 284.0 | 282.3 | 279.6 |
| 42 | 457.20 | 90.00 | 0.00 | 124.828 | 2.377 | 0.041 | 282.7 | 284.0 | 282.3 | 280.4 |
| 43 | 457.20 | 95.00 | 0.00 | 123.973 | 1.403 | 0.035 | 282.8 | 284.0 | 282.4 | 281.3 |
| 44 | 457.20 | 100.00 | 0.00 | 124.052 | 0.843 | 0.032 | 282.8 | 284.0 | 282.4 | 281.7 |
| 45 | 457.20 | 105.00 | 0.00 | 124.210 | 0.491 | 0.027 | 282.8 | 284.0 | 282.4 | 282.0 |
| 46 | 457.20 | 110.00 | 0.00 | 124.417 | 0.322 | 0.026 | 282.8 | 283.9 | 282.5 | 282.2 |

File : TAB189T

17-DEC-88
29-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config III(a)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.612 kPa

Mean gauged plenum pressure : 124.751 kPa
RMS gauged plenum pressure : 1.407 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 126.620 | 0.029 | 0.016 | 287.4 | 284.0 | 285.9 | 285.9 |
| 3 | 457.20 | -105.00 | 0.00 | 126.650 | 0.084 | 0.021 | 287.4 | 284.0 | 285.8 | 285.7 |
| 4 | 457.20 | -100.00 | 0.00 | 126.322 | 0.192 | 0.020 | 287.2 | 284.0 | 284.9 | 284.7 |
| 5 | 457.20 | -95.00 | 0.00 | 125.776 | 0.442 | 0.020 | 287.4 | 284.0 | 285.3 | 284.9 |
| 6 | 457.20 | -90.00 | 0.00 | 125.500 | 0.957 | 0.019 | 287.4 | 284.0 | 284.9 | 284.1 |
| 7 | 457.20 | -85.00 | 0.00 | 125.337 | 1.527 | 0.017 | 287.4 | 284.0 | 284.7 | 283.5 |
| 8 | 457.20 | -80.00 | 0.00 | 125.530 | 2.290 | 0.015 | 287.6 | 284.0 | 284.2 | 282.3 |
| 9 | 457.20 | -75.00 | 0.00 | 125.913 | 3.515 | 0.016 | 287.5 | 284.0 | 283.7 | 280.9 |
| 10 | 457.20 | -70.00 | 0.00 | 126.196 | 4.804 | 0.018 | 287.4 | 284.0 | 283.3 | 279.5 |
| 11 | 457.20 | -65.00 | 0.00 | 126.339 | 7.082 | 0.018 | 287.4 | 284.0 | 283.0 | 277.4 |
| 12 | 457.20 | -60.00 | 0.00 | 126.229 | 9.167 | 0.016 | 287.3 | 284.0 | 282.5 | 275.4 |
| 13 | 457.20 | -55.00 | 0.00 | 125.868 | 12.520 | 0.015 | 287.4 | 284.0 | 282.4 | 272.9 |
| 14 | 457.20 | -50.00 | 0.00 | 125.560 | 16.235 | 0.013 | 287.4 | 284.0 | 286.0 | 273.8 |
| 15 | 457.20 | -45.00 | 0.00 | 125.258 | 20.363 | 0.016 | 287.4 | 284.0 | 281.8 | 267.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 125.234 | 25.096 | 0.014 | 287.5 | 284.0 | 188.3 | 176.4 |
| 17 | 457.20 | -35.00 | 0.00 | 125.493 | 30.025 | 0.015 | 287.6 | 284.0 | 278.9 | 258.5 |
| 18 | 457.20 | -30.00 | 0.00 | 125.849 | 34.216 | 0.013 | 287.7 | 284.1 | 93.1 | 85.5 |
| 19 | 457.20 | -25.00 | 0.00 | 126.078 | 37.268 | 0.016 | 287.4 | 284.0 | 195.3 | 178.1 |
| 20 | 457.20 | -20.00 | 0.00 | 126.145 | 39.298 | 0.013 | 287.3 | 284.0 | 0.0 | 0.0 |
| 21 | 457.20 | -15.00 | 0.00 | 125.849 | 40.312 | 0.015 | 287.2 | 284.0 | 0.0 | 0.0 |
| 22 | 457.20 | -10.00 | 0.00 | 125.403 | 39.922 | 0.016 | 287.1 | 284.0 | 0.0 | 0.0 |
| 23 | 457.20 | -5.00 | 0.00 | 125.216 | 39.439 | 0.014 | 287.3 | 284.0 | 186.8 | 169.6 |
| 24 | 457.20 | 0.00 | 0.00 | 125.320 | 39.844 | 0.012 | 287.5 | 284.1 | 104.2 | 94.5 |
| 25 | 457.20 | 5.00 | 0.00 | 125.618 | 40.578 | 0.013 | 287.4 | 284.0 | 0.0 | 0.0 |
| 26 | 457.20 | 10.00 | 0.00 | 125.409 | 41.221 | 0.012 | 287.4 | 284.1 | 0.0 | 0.0 |
| 27 | 457.20 | 15.00 | 0.00 | 125.561 | 41.469 | 0.013 | 287.5 | 284.1 | 0.0 | 0.0 |
| 28 | 457.20 | 20.00 | 0.00 | 125.458 | 39.935 | 0.014 | 287.7 | 284.1 | 0.0 | 0.0 |
| 29 | 457.20 | 25.00 | 0.00 | 124.848 | 36.429 | 0.013 | 287.6 | 284.0 | 0.0 | 0.0 |
| 30 | 457.20 | 30.00 | 0.00 | 124.391 | 32.374 | 0.014 | 287.5 | 284.1 | 0.0 | 0.0 |
| 31 | 457.20 | 35.00 | 0.00 | 123.852 | 28.710 | 0.013 | 287.5 | 284.0 | 0.0 | 0.0 |
| 32 | 457.20 | 40.00 | 0.00 | 123.661 | 24.967 | 0.014 | 287.5 | 284.0 | 0.0 | 0.0 |
| 33 | 457.20 | 45.00 | 0.00 | 123.763 | 17.658 | 0.017 | 287.3 | 284.1 | 0.0 | 0.0 |
| 34 | 457.20 | 50.00 | 0.00 | 124.129 | 14.215 | 0.014 | 287.5 | 284.1 | 0.0 | 0.0 |
| 35 | 457.20 | 55.00 | 0.00 | 124.364 | 9.787 | 0.013 | 287.4 | 284.0 | 0.0 | 0.0 |
| 36 | 457.20 | 60.00 | 0.00 | 124.100 | 8.636 | 0.013 | 287.6 | 284.1 | 0.0 | 0.0 |
| 37 | 457.20 | 65.00 | 0.00 | 123.381 | 5.758 | 0.016 | 287.6 | 284.1 | 0.0 | 0.0 |
| 38 | 457.20 | 70.00 | 0.00 | 122.541 | 4.471 | 0.014 | 287.5 | 284.0 | 0.0 | 0.0 |
| 39 | 457.20 | 75.00 | 0.00 | 122.129 | 2.897 | 0.014 | 287.5 | 284.0 | 0.0 | 0.0 |
| 40 | 457.20 | 80.00 | 0.00 | 122.269 | 1.885 | 0.014 | 287.4 | 284.1 | 0.0 | 0.0 |
| 41 | 457.20 | 85.00 | 0.00 | 122.705 | 1.199 | 0.015 | 287.5 | 284.1 | 0.0 | 0.0 |
| 42 | 457.20 | 90.00 | 0.00 | 123.216 | 0.796 | 0.013 | 287.6 | 284.1 | 0.0 | 0.0 |
| 43 | 457.20 | 95.00 | 0.00 | 123.130 | 0.504 | 0.013 | 287.5 | 284.1 | 0.0 | 0.0 |
| 44 | 457.20 | 100.00 | 0.00 | 122.836 | 0.160 | 0.013 | 287.7 | 284.1 | 0.0 | 0.0 |
| 45 | 457.20 | 105.00 | 0.00 | 122.329 | 0.079 | 0.013 | 287.7 | 284.1 | 0.0 | 0.0 |
| 46 | 457.20 | 110.00 | 0.00 | 121.995 | 0.012 | 0.013 | 287.7 | 284.1 | 0.0 | 0.0 |

File : TAB205T 19-DEC-88
1-DEC-88

Reduced experimental data file

*VERTICAL PROFILE*

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config III(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.341 kPa

Mean gauged plenum pressure : 124.439 kPa
RMS gauged plenum pressure : 0.196 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 124.685 | 0.040 | 0.012 | 285.2 | 283.3 | 0.0 | 0.0 |
| 3 | 457.20 | 0.00 | -97.00 | 124.601 | 0.013 | 0.011 | 285.2 | 283.3 | 0.0 | 0.0 |
| 4 | 457.20 | 0.00 | -94.00 | 124.483 | 0.014 | 0.011 | 285.2 | 283.3 | 0.0 | 0.0 |
| 5 | 457.20 | 0.00 | -91.00 | 124.457 | 0.011 | 0.011 | 285.4 | 283.3 | 0.0 | 0.0 |
| 6 | 457.20 | 0.00 | -88.00 | 124.487 | 0.017 | 0.011 | 285.4 | 283.3 | 0.0 | 0.0 |
| 7 | 457.20 | 0.00 | -85.00 | 124.503 | 0.057 | 0.011 | 285.5 | 283.3 | 0.0 | 0.0 |
| 8 | 457.20 | 0.00 | -82.00 | 124.507 | 0.137 | 0.010 | 285.6 | 283.3 | 0.0 | 0.0 |
| 9 | 457.20 | 0.00 | -79.00 | 124.592 | 0.356 | 0.010 | 285.6 | 283.3 | 0.0 | 0.0 |
| 10 | 457.20 | 0.00 | -76.00 | 124.730 | 0.543 | 0.011 | 285.4 | 283.3 | 0.0 | 0.0 |
| 11 | 457.20 | 0.00 | -73.00 | 124.769 | 0.790 | 0.010 | 285.2 | 283.3 | 0.0 | 0.0 |
| 12 | 457.20 | 0.00 | -70.00 | 124.597 | 1.088 | 0.010 | 285.0 | 283.2 | 0.0 | 0.0 |
| 13 | 457.20 | 0.00 | -67.00 | 124.498 | 1.478 | 0.010 | 284.9 | 283.2 | 0.0 | 0.0 |
| 14 | 457.20 | 0.00 | -64.00 | 124.482 | 2.134 | 0.010 | 284.6 | 283.1 | 0.0 | 0.0 |
| 15 | 457.20 | 0.00 | -61.00 | 124.437 | 2.896 | 0.009 | 284.6 | 283.1 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 124.249 | 3.710 | 0.009 | 284.5 | 283.2 | 0.0 | 0.0 |
| 17 | 457.20 | 0.00 | -55.00 | 124.108 | 4.699 | 0.009 | 284.3 | 283.1 | 0.0 | 0.0 |
| 18 | 457.20 | 0.00 | -52.00 | 124.165 | 6.071 | 0.009 | 284.1 | 283.1 | 0.0 | 0.0 |
| 19 | 457.20 | 0.00 | -49.00 | 124.162 | 7.272 | 0.009 | 284.0 | 283.1 | 0.0 | 0.0 |
| 20 | 457.20 | 0.00 | -46.00 | 124.104 | 8.994 | 0.009 | 283.9 | 283.1 | 0.0 | 0.0 |
| 21 | 457.20 | 0.00 | -43.00 | 124.215 | 10.505 | 0.010 | 283.8 | 283.1 | 0.0 | 0.0 |
| 22 | 457.20 | 0.00 | -40.00 | 124.240 | 12.438 | 0.010 | 283.7 | 283.0 | 0.0 | 0.0 |
| 23 | 457.20 | 0.00 | -37.00 | 124.336 | 14.523 | 0.010 | 283.5 | 283.0 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | -34.00 | 124.316 | 17.177 | 0.010 | 283.5 | 283.0 | 0.0 | 0.0 |
| 25 | 457.20 | 0.00 | -31.00 | 124.348 | 19.768 | 0.010 | 283.5 | 283.0 | 0.0 | 0.0 |
| 26 | 457.20 | 0.00 | -28.00 | 124.344 | 22.976 | 0.011 | 283.4 | 283.0 | 0.0 | 0.0 |
| 27 | 457.20 | 0.00 | -25.00 | 124.235 | 25.968 | 0.011 | 283.3 | 283.0 | 0.0 | 0.0 |
| 28 | 457.20 | 0.00 | -22.00 | 124.283 | 28.928 | 0.011 | 283.3 | 282.9 | 0.0 | 0.0 |
| 29 | 457.20 | 0.00 | -19.00 | 124.236 | 32.050 | 0.011 | 283.3 | 283.0 | 0.0 | 0.0 |
| 30 | 457.20 | 0.00 | -16.00 | 124.337 | 35.101 | 0.011 | 283.2 | 283.0 | 0.0 | 0.0 |
| 31 | 457.20 | 0.00 | -13.00 | 124.362 | 37.472 | 0.012 | 283.2 | 282.9 | 0.0 | 0.0 |
| 32 | 457.20 | 0.00 | -10.00 | 124.335 | 39.424 | 0.011 | 283.2 | 283.0 | 0.0 | 0.0 |
| 33 | 457.20 | 0.00 | -7.00 | 124.320 | 40.895 | 0.012 | 283.1 | 282.9 | 0.0 | 0.0 |
| 34 | 457.20 | 0.00 | -4.00 | 124.361 | 40.933 | 0.012 | 283.1 | 282.9 | 0.0 | 0.0 |
| 35 | 457.20 | 0.00 | -1.00 | 124.368 | 39.967 | 0.012 | 283.1 | 282.9 | 0.0 | 0.0 |
| 36 | 457.20 | 0.00 | 2.00 | 124.413 | 39.036 | 0.012 | 283.1 | 282.9 | 0.0 | 0.0 |
| 37 | 457.20 | 0.00 | 5.00 | 124.405 | 36.506 | 0.012 | 283.1 | 282.9 | 0.0 | 0.0 |
| 38 | 457.20 | 0.00 | 8.00 | 124.396 | 34.860 | 0.012 | 283.0 | 282.9 | 0.0 | 0.0 |
| 39 | 457.20 | 0.00 | 11.00 | 124.685 | 31.303 | 0.012 | 283.0 | 282.9 | 0.0 | 0.0 |
| 40 | 457.20 | 0.00 | 14.00 | 124.810 | 28.196 | 0.012 | 283.0 | 282.9 | 0.0 | 0.0 |
| 41 | 457.20 | 0.00 | 17.00 | 124.824 | 25.807 | 0.013 | 283.0 | 282.9 | 0.0 | 0.0 |
| 42 | 457.20 | 0.00 | 20.00 | 124.715 | 22.487 | 0.014 | 283.0 | 282.9 | 0.0 | 0.0 |

File : TAB215T 6-DEC-88
6-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config III(a)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.408 kPa

Mean gauged plenum pressure : 125.428 kPa
RMS gauged plenum pressure : 0.471 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.217 | 0.092 | 0.026 | 291.5 | 283.1 | 289.3 | 289.2 |
| 3 | 457.20 | -105.00 | 0.00 | 125.032 | 0.091 | 0.020 | 291.7 | 283.1 | 289.4 | 289.3 |
| 4 | 457.20 | -100.00 | 0.00 | 124.933 | 0.152 | 0.019 | 291.5 | 283.2 | 288.8 | 288.7 |
| 5 | 457.20 | -95.00 | 0.00 | 124.922 | 0.354 | 0.020 | 291.4 | 283.1 | 288.4 | 288.1 |
| 6 | 457.20 | -90.00 | 0.00 | 124.936 | 0.754 | 0.021 | 291.4 | 283.1 | 288.1 | 287.5 |
| 7 | 457.20 | -85.00 | 0.00 | 124.877 | 1.314 | 0.015 | 291.4 | 283.2 | 287.4 | 286.3 |
| 8 | 457.20 | -80.00 | 0.00 | 124.948 | 2.237 | 0.014 | 291.3 | 283.1 | 286.6 | 284.8 |
| 9 | 457.20 | -75.00 | 0.00 | 124.869 | 2.920 | 0.014 | 291.0 | 283.1 | 286.3 | 283.9 |
| 10 | 457.20 | -70.00 | 0.00 | 124.835 | 4.549 | 0.013 | 290.9 | 283.1 | 285.8 | 282.1 |
| 11 | 457.20 | -65.00 | 0.00 | 124.828 | 5.930 | 0.013 | 291.1 | 283.1 | 285.4 | 280.7 |
| 12 | 457.20 | -60.00 | 0.00 | 124.869 | 8.856 | 0.014 | 291.0 | 283.1 | 284.5 | 277.6 |
| 13 | 457.20 | -55.00 | 0.00 | 124.866 | 10.816 | 0.013 | 290.9 | 283.1 | 284.7 | 276.3 |
| 14 | 457.20 | -50.00 | 0.00 | 124.796 | 13.842 | 0.016 | 291.0 | 283.1 | 283.6 | 273.1 |
| 15 | 457.20 | -45.00 | 0.00 | 124.804 | 17.592 | 0.016 | 290.9 | 283.0 | 283.1 | 270.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.877 | 21.777 | 0.016 | 290.9 | 283.0 | 282.9 | 267.2 |
| 17 | 457.20 | -35.00 | 0.00 | 125.898 | 26.605 | 0.014 | 291.0 | 283.1 | 282.7 | 264.0 |
| 18 | 457.20 | -30.00 | 0.00 | 125.311 | 31.832 | 0.013 | 291.1 | 283.1 | 282.4 | 260.6 |
| 19 | 457.20 | -25.00 | 0.00 | 125.218 | 35.933 | 0.014 | 291.0 | 283.0 | 282.2 | 258.1 |
| 20 | 457.20 | -20.00 | 0.00 | 125.395 | 38.538 | 0.013 | 291.1 | 283.0 | 282.2 | 256.7 |
| 21 | 457.20 | -15.00 | 0.00 | 125.900 | 40.795 | 0.014 | 291.1 | 283.0 | 281.8 | 255.2 |
| 22 | 457.20 | -10.00 | 0.00 | 125.142 | 41.291 | 0.021 | 291.0 | 283.0 | 281.0 | 254.2 |
| 23 | 457.20 | -5.00 | 0.00 | 125.476 | 41.654 | 0.016 | 291.0 | 283.0 | 280.8 | 253.8 |
| 24 | 457.20 | 0.00 | 0.00 | 125.571 | 42.083 | 0.020 | 291.1 | 283.0 | 280.9 | 253.7 |
| 25 | 457.20 | 5.00 | 0.00 | 125.566 | 42.591 | 0.013 | 291.4 | 283.0 | 280.8 | 253.3 |
| 26 | 457.20 | 10.00 | 0.00 | 125.510 | 42.542 | 0.013 | 292.1 | 282.9 | 281.5 | 254.0 |
| 27 | 457.20 | 15.00 | 0.00 | 125.576 | 41.616 | 0.013 | 291.9 | 282.9 | 282.0 | 254.9 |
| 28 | 457.20 | 20.00 | 0.00 | 125.563 | 39.232 | 0.013 | 291.4 | 282.9 | 282.3 | 256.4 |
| 29 | 457.20 | 25.00 | 0.00 | 125.566 | 35.292 | 0.016 | 291.3 | 282.9 | 282.3 | 258.6 |
| 30 | 457.20 | 30.00 | 0.00 | 125.552 | 29.877 | 0.017 | 291.6 | 282.9 | 282.1 | 261.5 |
| 31 | 457.20 | 35.00 | 0.00 | 125.481 | 24.540 | 0.017 | 291.3 | 282.9 | 282.0 | 264.6 |
| 32 | 457.20 | 40.00 | 0.00 | 125.411 | 19.332 | 0.015 | 291.0 | 282.9 | 282.4 | 268.3 |
| 33 | 457.20 | 45.00 | 0.00 | 125.370 | 14.133 | 0.015 | 291.1 | 282.9 | 283.3 | 272.6 |
| 34 | 457.20 | 50.00 | 0.00 | 125.375 | 10.973 | 0.014 | 291.0 | 282.9 | 283.3 | 274.9 |
| 35 | 457.20 | 55.00 | 0.00 | 125.337 | 7.720 | 0.013 | 291.0 | 282.9 | 283.7 | 277.6 |
| 36 | 457.20 | 60.00 | 0.00 | 125.405 | 5.603 | 0.013 | 290.8 | 282.9 | 284.7 | 280.2 |
| 37 | 457.20 | 65.00 | 0.00 | 125.697 | 4.290 | 0.014 | 290.7 | 282.8 | 285.3 | 281.8 |
| 38 | 457.20 | 70.00 | 0.00 | 125.660 | 2.713 | 0.012 | 290.7 | 282.8 | 285.9 | 283.7 |
| 39 | 457.20 | 75.00 | 0.00 | 125.630 | 1.882 | 0.013 | 290.9 | 282.8 | 286.5 | 285.0 |
| 40 | 457.20 | 80.00 | 0.00 | 125.594 | 1.139 | 0.012 | 291.0 | 282.8 | 287.1 | 286.2 |
| 41 | 457.20 | 85.00 | 0.00 | 126.345 | 0.600 | 0.012 | 291.0 | 282.8 | 287.5 | 287.0 |
| 42 | 457.20 | 90.00 | 0.00 | 126.245 | 0.453 | 0.018 | 291.0 | 282.8 | 288.2 | 287.8 |
| 43 | 457.20 | 95.00 | 0.00 | 126.244 | 0.118 | 0.019 | 291.1 | 282.8 | 289.1 | 289.0 |
| 44 | 457.20 | 100.00 | 0.00 | 126.198 | 0.051 | 0.013 | 291.3 | 282.8 | 289.3 | 289.3 |
| 45 | 457.20 | 105.00 | 0.00 | 126.175 | 0.021 | 0.015 | 291.2 | 282.7 | 289.0 | 289.0 |
| 46 | 457.20 | 110.00 | 0.00 | 126.205 | 0.009 | 0.017 | 291.1 | 282.7 | 289.3 | 289.3 |

File : TAB224T 9-DEC-88
9-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

*Unexcited, unheated jet, Mj = 1.15*
DRPTAB, PLTDMN
Config III(a), +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.510 kPa

Mean gauged plenum pressure : 125.457 kPa
RMS gauged plenum pressure : 0.167 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.348 | 0.149 | 0.037 | 279.0 | 281.1 | 279.5 | 279.4 |
| 3 | 457.20 | -105.00 | 0.00 | 125.518 | 0.114 | 0.030 | 278.9 | 281.3 | 279.4 | 279.3 |
| 4 | 457.20 | -100.00 | 0.00 | 125.616 | 0.201 | 0.030 | 278.9 | 281.4 | 279.4 | 279.2 |
| 5 | 457.20 | -95.00 | 0.00 | 125.656 | 0.372 | 0.044 | 278.9 | 281.5 | 279.3 | 279.0 |
| 6 | 457.20 | -90.00 | 0.00 | 125.609 | 0.538 | 0.047 | 278.8 | 281.5 | 279.3 | 278.9 |
| 7 | 457.20 | -85.00 | 0.00 | 125.473 | 0.958 | 0.050 | 278.8 | 281.6 | 279.2 | 278.4 |
| 8 | 457.20 | -80.00 | 0.00 | 125.411 | 1.480 | 0.059 | 278.7 | 281.6 | 279.2 | 278.0 |
| 9 | 457.20 | -75.00 | 0.00 | 125.408 | 2.220 | 0.056 | 278.7 | 281.6 | 279.2 | 277.4 |
| 10 | 457.20 | -70.00 | 0.00 | 125.361 | 3.314 | 0.053 | 278.7 | 281.6 | 279.1 | 276.5 |
| 11 | 457.20 | -65.00 | 0.00 | 125.392 | 4.683 | 0.059 | 278.7 | 281.7 | 279.1 | 275.4 |
| 12 | 457.20 | -60.00 | 0.00 | 125.520 | 6.123 | 0.069 | 278.6 | 281.7 | 279.1 | 274.3 |
| 13 | 457.20 | -55.00 | 0.00 | 125.621 | 9.212 | 0.073 | 278.6 | 281.7 | 279.0 | 272.0 |
| 14 | 457.20 | -50.00 | 0.00 | 125.605 | 12.319 | 0.080 | 278.7 | 281.6 | 278.9 | 269.6 |
| 15 | 457.20 | -45.00 | 0.00 | 125.554 | 15.246 | 0.081 | 278.6 | 281.6 | 278.9 | 267.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 125.586 | 19.037 | 0.077 | 278.6 | 281.7 | 278.9 | 265.1 |
| 17 | 457.20 | -35.00 | 0.00 | 125.494 | 25.158 | 0.075 | 278.6 | 281.7 | 278.9 | 261.3 |
| 18 | 457.20 | -30.00 | 0.00 | 125.500 | 30.631 | 0.075 | 278.6 | 281.7 | 278.9 | 258.1 |
| 19 | 457.20 | -25.00 | 0.00 | 125.476 | 35.608 | 0.078 | 278.6 | 281.7 | 278.8 | 255.2 |
| 20 | 457.20 | -20.00 | 0.00 | 125.377 | 38.965 | 0.076 | 278.6 | 281.7 | 278.7 | 253.3 |
| 21 | 457.20 | -15.00 | 0.00 | 125.317 | 41.617 | 0.072 | 278.5 | 281.6 | 278.7 | 251.9 |
| 22 | 457.20 | -10.00 | 0.00 | 125.265 | 42.408 | 0.076 | 278.5 | 281.7 | 278.7 | 251.5 |
| 23 | 457.20 | -5.00 | 0.00 | 125.300 | 42.529 | 0.075 | 278.5 | 281.7 | 278.7 | 251.5 |
| 24 | 457.20 | 0.00 | 0.00 | 125.236 | 42.048 | 0.070 | 278.5 | 281.6 | 278.7 | 251.7 |
| 25 | 457.20 | 5.00 | 0.00 | 125.452 | 41.595 | 0.069 | 278.5 | 281.6 | 278.6 | 251.9 |
| 26 | 457.20 | 10.00 | 0.00 | 125.489 | 40.907 | 0.070 | 278.5 | 281.6 | 278.6 | 252.2 |
| 27 | 457.20 | 15.00 | 0.00 | 125.631 | 40.399 | 0.072 | 278.4 | 281.6 | 278.6 | 252.5 |
| 28 | 457.20 | 20.00 | 0.00 | 125.734 | 38.576 | 0.067 | 278.4 | 281.6 | 278.6 | 253.4 |
| 29 | 457.20 | 25.00 | 0.00 | 125.702 | 35.878 | 0.068 | 278.5 | 281.6 | 278.6 | 254.9 |
| 30 | 457.20 | 30.00 | 0.00 | 125.691 | 32.002 | 0.060 | 278.4 | 281.6 | 278.5 | 256.9 |
| 31 | 457.20 | 35.00 | 0.00 | 125.396 | 27.684 | 0.059 | 278.4 | 281.7 | 278.5 | 259.4 |
| 32 | 457.20 | 40.00 | 0.00 | 125.282 | 22.660 | 0.060 | 278.4 | 281.6 | 278.5 | 262.5 |
| 33 | 457.20 | 45.00 | 0.00 | 125.278 | 18.518 | 0.060 | 278.4 | 281.6 | 278.5 | 265.1 |
| 34 | 457.20 | 50.00 | 0.00 | 125.218 | 15.039 | 0.051 | 278.4 | 281.6 | 278.5 | 267.4 |
| 35 | 457.20 | 55.00 | 0.00 | 125.225 | 11.723 | 0.045 | 278.4 | 281.7 | 278.5 | 269.7 |
| 36 | 457.20 | 60.00 | 0.00 | 125.319 | 8.710 | 0.042 | 278.4 | 281.6 | 278.5 | 271.8 |
| 37 | 457.20 | 65.00 | 0.00 | 125.601 | 6.456 | 0.039 | 278.4 | 281.6 | 278.5 | 273.5 |
| 38 | 457.20 | 70.00 | 0.00 | 125.707 | 4.813 | 0.043 | 278.5 | 281.6 | 278.5 | 274.7 |
| 39 | 457.20 | 75.00 | 0.00 | 125.701 | 3.723 | 0.037 | 278.5 | 281.6 | 278.5 | 275.6 |
| 40 | 457.20 | 80.00 | 0.00 | 125.629 | 2.510 | 0.032 | 278.5 | 281.6 | 278.6 | 276.6 |
| 41 | 457.20 | 85.00 | 0.00 | 125.619 | 1.520 | 0.030 | 278.5 | 281.6 | 278.6 | 277.4 |
| 42 | 457.20 | 90.00 | 0.00 | 125.523 | 0.999 | 0.028 | 278.6 | 281.6 | 278.6 | 277.8 |
| 43 | 457.20 | 95.00 | 0.00 | 125.405 | 0.674 | 0.020 | 278.6 | 281.6 | 278.6 | 278.1 |
| 44 | 457.20 | 100.00 | 0.00 | 125.277 | 0.239 | 0.022 | 278.5 | 281.6 | 278.6 | 278.4 |
| 45 | 457.20 | 105.00 | 0.00 | 125.184 | 0.123 | 0.017 | 278.5 | 281.6 | 278.6 | 278.5 |
| 46 | 457.20 | 110.00 | 0.00 | 125.240 | 0.035 | 0.020 | 278.6 | 281.6 | 278.6 | 278.6 |

File : TAB198T

18-DEC-88
1-DEC-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config III(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.612 kPa

Mean gauged plenum pressure : 124.810 kPa
RMS gauged plenum pressure : 0.342 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.907 | 0.067 | 0.011 | 276.0 | 282.2 | 0.0 | 0.0 |
| 3 | 457.20 | -105.00 | 0.00 | 124.931 | 0.303 | 0.012 | 276.1 | 282.2 | 0.0 | 0.0 |
| 4 | 457.20 | -100.00 | 0.00 | 124.625 | 0.579 | 0.011 | 276.1 | 282.2 | 0.0 | 0.0 |
| 5 | 457.20 | -95.00 | 0.00 | 124.631 | 1.096 | 0.011 | 276.1 | 282.2 | 0.0 | 0.0 |
| 6 | 457.20 | -90.00 | 0.00 | 124.767 | 1.514 | 0.012 | 276.2 | 282.3 | 0.0 | 0.0 |
| 7 | 457.20 | -85.00 | 0.00 | 124.757 | 2.659 | 0.012 | 276.2 | 282.2 | 0.0 | 0.0 |
| 8 | 457.20 | -80.00 | 0.00 | 124.453 | 3.858 | 0.012 | 276.3 | 282.3 | 0.0 | 0.0 |
| 9 | 457.20 | -75.00 | 0.00 | 124.529 | 5.238 | 0.012 | 276.3 | 282.3 | 0.0 | 0.0 |
| 10 | 457.20 | -70.00 | 0.00 | 124.511 | 7.430 | 0.012 | 276.4 | 282.2 | 0.0 | 0.0 |
| 11 | 457.20 | -65.00 | 0.00 | 124.501 | 9.952 | 0.012 | 276.4 | 282.3 | 0.0 | 0.0 |
| 12 | 457.20 | -60.00 | 0.00 | 124.570 | 13.114 | 0.012 | 276.4 | 282.2 | 0.0 | 0.0 |
| 13 | 457.20 | -55.00 | 0.00 | 124.662 | 16.949 | 0.012 | 276.5 | 282.2 | 0.0 | 0.0 |
| 14 | 457.20 | -50.00 | 0.00 | 124.492 | 21.013 | 0.012 | 276.6 | 282.3 | 0.0 | 0.0 |
| 15 | 457.20 | -45.00 | 0.00 | 124.388 | 26.224 | 0.012 | 276.7 | 282.3 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.587 | 31.354 | 0.013 | 276.8 | 282.2 | 0.0 | 0.0 |
| 17 | 457.20 | -35.00 | 0.00 | 124.560 | 35.940 | 0.013 | 276.8 | 282.2 | 0.0 | 0.0 |
| 18 | 457.20 | -30.00 | 0.00 | 124.633 | 38.734 | 0.013 | 276.9 | 282.3 | 0.0 | 0.0 |
| 19 | 457.20 | -25.00 | 0.00 | 124.600 | 39.383 | 0.013 | 276.9 | 282.2 | 0.0 | 0.0 |
| 20 | 457.20 | -20.00 | 0.00 | 124.564 | 37.948 | 0.014 | 277.0 | 282.3 | 0.0 | 0.0 |
| 21 | 457.20 | -15.00 | 0.00 | 124.501 | 35.114 | 0.015 | 277.1 | 282.3 | 0.0 | 0.0 |
| 22 | 457.20 | -10.00 | 0.00 | 125.120 | 32.275 | 0.016 | 277.1 | 282.2 | 0.0 | 0.0 |
| 23 | 457.20 | -5.00 | 0.00 | 125.320 | 29.811 | 0.015 | 277.2 | 282.3 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | 0.00 | 125.290 | 29.174 | 0.021 | 277.2 | 282.3 | 0.0 | 0.0 |
| 25 | 457.20 | 5.00 | 0.00 | 125.114 | 30.472 | 0.019 | 277.2 | 282.3 | 0.0 | 0.0 |
| 26 | 457.20 | 10.00 | 0.00 | 125.090 | 33.154 | 0.015 | 277.3 | 282.3 | 105.2 | 96.8 |
| 27 | 457.20 | 15.00 | 0.00 | 125.096 | 35.701 | 0.019 | 277.4 | 282.3 | 0.0 | 0.0 |
| 28 | 457.20 | 20.00 | 0.00 | 125.240 | 37.926 | 0.019 | 277.5 | 282.3 | 280.2 | 255.3 |
| 29 | 457.20 | 25.00 | 0.00 | 125.361 | 38.404 | 0.025 | 277.5 | 282.3 | 0.0 | 0.0 |
| 30 | 457.20 | 30.00 | 0.00 | 125.196 | 37.304 | 0.023 | 277.5 | 282.3 | 0.0 | 0.0 |
| 31 | 457.20 | 35.00 | 0.00 | 125.102 | 33.344 | 0.024 | 277.6 | 282.3 | 0.0 | 0.0 |
| 32 | 457.20 | 40.00 | 0.00 | 125.145 | 27.502 | 0.019 | 277.6 | 282.3 | 0.0 | 0.0 |
| 33 | 457.20 | 45.00 | 0.00 | 125.137 | 22.772 | 0.026 | 277.6 | 282.4 | 0.0 | 0.0 |
| 34 | 457.20 | 50.00 | 0.00 | 124.818 | 17.425 | 0.021 | 277.8 | 282.3 | 0.0 | 0.0 |
| 35 | 457.20 | 55.00 | 0.00 | 124.882 | 13.795 | 0.018 | 277.8 | 282.3 | 0.0 | 0.0 |
| 36 | 457.20 | 60.00 | 0.00 | 124.801 | 10.108 | 0.022 | 277.9 | 282.3 | 0.0 | 0.0 |
| 37 | 457.20 | 65.00 | 0.00 | 124.531 | 7.677 | 0.018 | 277.9 | 282.4 | 0.0 | 0.0 |
| 38 | 457.20 | 70.00 | 0.00 | 124.461 | 5.331 | 0.020 | 277.9 | 282.3 | 0.0 | 0.0 |
| 39 | 457.20 | 75.00 | 0.00 | 123.989 | 4.588 | 0.020 | 278.0 | 282.4 | 0.0 | 0.0 |
| 40 | 457.20 | 80.00 | 0.00 | 124.077 | 2.925 | 0.025 | 278.0 | 282.4 | 0.0 | 0.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.998 | 1.834 | 0.026 | 278.1 | 282.3 | 0.0 | 0.0 |
| 42 | 457.20 | 90.00 | 0.00 | 124.917 | 1.196 | 0.028 | 278.2 | 282.3 | 0.0 | 0.0 |
| 43 | 457.20 | 95.00 | 0.00 | 124.933 | 0.745 | 0.032 | 278.2 | 282.3 | 0.0 | 0.0 |
| 44 | 457.20 | 100.00 | 0.00 | 125.075 | 0.315 | 0.030 | 278.2 | 282.3 | 0.0 | 0.0 |
| 45 | 457.20 | 105.00 | 0.00 | 125.064 | 0.252 | 0.029 | 278.2 | 282.4 | 0.0 | 0.0 |
| 46 | 457.20 | 110.00 | 0.00 | 125.106 | 0.014 | 0.028 | 278.3 | 282.4 | 0.0 | 0.0 |

File : TAB197T 18-DEC-88
1-DEC-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config. III(b)

C1 : x/d = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.578 kPa

Mean gauged plenum pressure : 125.201 kPa
RMS gauged plenum pressure : 0.538 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 125.083 | 0.129 | 0.029 | 273.0 | 281.6 | 91.0 | 91.0 |
| 3 | 457.20 | 0.00 | -97.00 | 125.122 | 0.072 | 0.028 | 273.0 | 281.7 | 272.5 | 272.4 |
| 4 | 457.20 | 0.00 | -94.00 | 125.070 | 0.074 | 0.028 | 273.1 | 281.7 | 0.0 | 0.0 |
| 5 | 457.20 | 0.00 | -91.00 | 125.056 | 0.049 | 0.037 | 273.2 | 281.8 | 273.9 | 273.9 |
| 6 | 457.20 | 0.00 | -88.00 | 125.007 | 0.051 | 0.042 | 273.2 | 281.8 | 93.3 | 93.3 |
| 7 | 457.20 | 0.00 | -85.00 | 125.045 | 0.078 | 0.051 | 273.2 | 281.8 | 0.0 | 0.0 |
| 8 | 457.20 | 0.00 | -82.00 | 125.229 | 0.099 | 0.048 | 273.1 | 281.9 | 195.2 | 195.1 |
| 9 | 457.20 | 0.00 | -79.00 | 125.235 | 0.219 | 0.045 | 273.2 | 281.9 | 0.0 | 0.0 |
| 10 | 457.20 | 0.00 | -76.00 | 125.200 | 0.321 | 0.041 | 273.3 | 281.9 | 0.0 | 0.0 |
| 11 | 457.20 | 0.00 | -73.00 | 125.212 | 0.584 | 0.038 | 273.3 | 282.0 | 0.0 | 0.0 |
| 12 | 457.20 | 0.00 | -70.00 | 125.100 | 0.736 | 0.040 | 273.3 | 282.0 | 0.0 | 0.0 |
| 13 | 457.20 | 0.00 | -67.00 | 125.150 | 1.103 | 0.045 | 273.4 | 282.0 | 0.0 | 0.0 |
| 14 | 457.20 | 0.00 | -64.00 | 125.226 | 1.566 | 0.048 | 273.4 | 282.0 | 0.0 | 0.0 |
| 15 | 457.20 | 0.00 | -61.00 | 125.085 | 2.102 | 0.049 | 273.5 | 282.0 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 125.183 | 2.961 | 0.052 | 273.5 | 282.0 | 100.8 | 99.9 |
| 17 | 457.20 | 0.00 | -55.00 | 125.366 | 3.583 | 0.054 | 273.6 | 282.1 | 0.0 | 0.0 |
| 18 | 457.20 | 0.00 | -52.00 | 125.453 | 4.546 | 0.050 | 273.6 | 282.1 | 0.0 | 0.0 |
| 19 | 457.20 | 0.00 | -49.00 | 125.583 | 5.686 | 0.046 | 273.7 | 282.1 | 0.0 | 0.0 |
| 20 | 457.20 | 0.00 | -46.00 | 125.690 | 6.866 | 0.047 | 273.7 | 282.1 | 0.0 | 0.0 |
| 21 | 457.20 | 0.00 | -43.00 | 125.547 | 8.409 | 0.051 | 273.8 | 282.1 | 0.0 | 0.0 |
| 22 | 457.20 | 0.00 | -40.00 | 125.507 | 9.977 | 0.052 | 273.8 | 282.1 | 0.0 | 0.0 |
| 23 | 457.20 | 0.00 | -37.00 | 125.502 | 11.627 | 0.048 | 273.8 | 282.1 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | -34.00 | 125.347 | 13.748 | 0.047 | 273.9 | 282.1 | 0.0 | 0.0 |
| 25 | 457.20 | 0.00 | -31.00 | 125.181 | 16.375 | 0.049 | 273.9 | 282.1 | 0.0 | 0.0 |
| 26 | 457.20 | 0.00 | -28.00 | 125.163 | 18.780 | 0.042 | 274.0 | 282.1 | 0.0 | 0.0 |
| 27 | 457.20 | 0.00 | -25.00 | 125.243 | 20.992 | 0.043 | 274.0 | 282.1 | 0.0 | 0.0 |
| 28 | 457.20 | 0.00 | -22.00 | 125.313 | 23.481 | 0.045 | 274.1 | 282.1 | 0.0 | 0.0 |
| 29 | 457.20 | 0.00 | -19.00 | 125.443 | 25.096 | 0.044 | 274.2 | 282.1 | 0.0 | 0.0 |
| 30 | 457.20 | 0.00 | -16.00 | 126.006 | 27.446 | 0.042 | 274.2 | 282.2 | 0.0 | 0.0 |
| 31 | 457.20 | 0.00 | -13.00 | 127.023 | 29.345 | 0.044 | 274.2 | 282.1 | 0.0 | 0.0 |
| 32 | 457.20 | 0.00 | -10.00 | 126.528 | 30.361 | 0.039 | 274.3 | 282.1 | 0.0 | 0.0 |
| 33 | 457.20 | 0.00 | -7.00 | 125.156 | 31.248 | 0.037 | 274.4 | 282.1 | 0.0 | 0.0 |
| 34 | 457.20 | 0.00 | -4.00 | 124.978 | 30.855 | 0.034 | 274.4 | 282.1 | 0.0 | 0.0 |
| 35 | 457.20 | 0.00 | -1.00 | 124.854 | 30.059 | 0.038 | 274.5 | 282.2 | 0.0 | 0.0 |
| 36 | 457.20 | 0.00 | 2.00 | 123.879 | 29.110 | 0.038 | 274.5 | 282.2 | 0.0 | 0.0 |
| 37 | 457.20 | 0.00 | 5.00 | 124.100 | 27.081 | 0.029 | 274.5 | 282.1 | 0.0 | 0.0 |
| 38 | 457.20 | 0.00 | 8.00 | 124.672 | 25.090 | 0.028 | 274.7 | 282.2 | 0.0 | 0.0 |
| 39 | 457.20 | 0.00 | 11.00 | 124.588 | 22.242 | 0.023 | 274.8 | 282.1 | 0.0 | 0.0 |
| 40 | 457.20 | 0.00 | 14.00 | 124.702 | 19.326 | 0.024 | 274.8 | 282.2 | 0.0 | 0.0 |
| 41 | 457.20 | 0.00 | 17.00 | 124.792 | 17.007 | 0.024 | 275.0 | 282.2 | 0.0 | 0.0 |
| 42 | 457.20 | 0.00 | 20.00 | 124.830 | 14.702 | 0.023 | 275.0 | 282.2 | 0.0 | 0.0 |

File : TAB214T 6-DEC-88
6-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config III(b), -14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.612 kPa

Mean gauged plenum pressure : 125.469 kPa
RMS gauged plenum pressure : 0.204 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.825 | 0.128 | 0.016 | 290.5 | 282.7 | 288.0 | 287.9 |
| 3 | 457.20 | -105.00 | 0.00 | 125.350 | 0.136 | 0.015 | 290.4 | 282.6 | 288.0 | 287.9 |
| 4 | 457.20 | -100.00 | 0.00 | 125.298 | 0.275 | 0.013 | 290.4 | 282.7 | 288.0 | 287.8 |
| 5 | 457.20 | -95.00 | 0.00 | 125.248 | 0.455 | 0.012 | 290.5 | 282.7 | 287.4 | 287.0 |
| 6 | 457.20 | -90.00 | 0.00 | 125.255 | 0.790 | 0.012 | 290.2 | 282.7 | 286.4 | 285.7 |
| 7 | 457.20 | -85.00 | 0.00 | 125.274 | 1.470 | 0.012 | 290.1 | 282.8 | 286.2 | 285.0 |
| 8 | 457.20 | -80.00 | 0.00 | 125.251 | 2.463 | 0.011 | 290.0 | 282.8 | 285.4 | 283.4 |
| 9 | 457.20 | -75.00 | 0.00 | 125.287 | 3.827 | 0.012 | 290.3 | 282.8 | 285.4 | 282.3 |
| 10 | 457.20 | -70.00 | 0.00 | 125.310 | 5.433 | 0.011 | 290.4 | 282.8 | 284.8 | 280.5 |
| 11 | 457.20 | -65.00 | 0.00 | 125.378 | 7.468 | 0.011 | 290.5 | 282.8 | 284.1 | 278.2 |
| 12 | 457.20 | -60.00 | 0.00 | 125.402 | 11.276 | 0.011 | 290.4 | 282.8 | 283.5 | 274.8 |
| 13 | 457.20 | -55.00 | 0.00 | 125.404 | 14.158 | 0.011 | 290.4 | 282.8 | 282.9 | 272.2 |
| 14 | 457.20 | -50.00 | 0.00 | 125.402 | 18.088 | 0.011 | 290.4 | 282.9 | 283.1 | 269.8 |
| 15 | 457.20 | -45.00 | 0.00 | 125.406 | 22.486 | 0.011 | 290.4 | 282.8 | 282.2 | 266.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 125.451 | 27.819 | 0.011 | 290.4 | 282.9 | 282.3 | 262.9 |
| 17 | 457.20 | -35.00 | 0.00 | 125.480 | 32.747 | 0.011 | 290.3 | 282.8 | 282.2 | 260.0 |
| 18 | 457.20 | -30.00 | 0.00 | 125.499 | 35.627 | 0.011 | 290.0 | 282.8 | 281.9 | 258.1 |
| 19 | 457.20 | -25.00 | 0.00 | 125.558 | 36.550 | 0.011 | 290.1 | 282.8 | 281.6 | 257.3 |
| 20 | 457.20 | -20.00 | 0.00 | 125.550 | 35.380 | 0.011 | 290.1 | 282.8 | 281.0 | 257.4 |
| 21 | 457.20 | -15.00 | 0.00 | 125.557 | 33.463 | 0.010 | 290.2 | 282.8 | 280.5 | 258.0 |
| 22 | 457.20 | -10.00 | 0.00 | 125.613 | 30.690 | 0.011 | 290.1 | 282.8 | 279.7 | 258.8 |
| 23 | 457.20 | -5.00 | 0.00 | 125.616 | 29.509 | 0.011 | 289.7 | 282.8 | 279.1 | 258.9 |
| 24 | 457.20 | 0.00 | 0.00 | 125.589 | 29.580 | 0.010 | 289.9 | 282.8 | 279.1 | 258.9 |
| 25 | 457.20 | 5.00 | 0.00 | 125.642 | 30.756 | 0.010 | 290.2 | 282.7 | 279.8 | 258.9 |
| 26 | 457.20 | 10.00 | 0.00 | 125.622 | 33.758 | 0.010 | 290.4 | 282.8 | 280.7 | 258.0 |
| 27 | 457.20 | 15.00 | 0.00 | 125.661 | 36.449 | 0.011 | 290.4 | 282.7 | 281.1 | 256.9 |
| 28 | 457.20 | 20.00 | 0.00 | 125.654 | 37.879 | 0.011 | 290.1 | 282.7 | 281.8 | 256.7 |
| 29 | 457.20 | 25.00 | 0.00 | 125.656 | 38.206 | 0.011 | 290.2 | 282.7 | 282.3 | 257.0 |
| 30 | 457.20 | 30.00 | 0.00 | 125.616 | 35.186 | 0.010 | 290.4 | 282.7 | 282.4 | 258.8 |
| 31 | 457.20 | 35.00 | 0.00 | 125.641 | 30.498 | 0.010 | 290.5 | 282.7 | 282.1 | 261.1 |
| 32 | 457.20 | 40.00 | 0.00 | 125.612 | 25.033 | 0.010 | 290.7 | 282.7 | 281.8 | 264.1 |
| 33 | 457.20 | 45.00 | 0.00 | 125.573 | 19.306 | 0.011 | 290.5 | 282.7 | 281.6 | 267.5 |
| 34 | 457.20 | 50.00 | 0.00 | 125.533 | 15.324 | 0.011 | 290.4 | 282.7 | 282.1 | 270.7 |
| 35 | 457.20 | 55.00 | 0.00 | 125.495 | 10.469 | 0.011 | 290.2 | 282.7 | 282.4 | 274.4 |
| 36 | 457.20 | 60.00 | 0.00 | 125.544 | 7.839 | 0.010 | 290.2 | 282.7 | 282.9 | 276.8 |
| 37 | 457.20 | 65.00 | 0.00 | 125.520 | 5.454 | 0.010 | 290.1 | 282.7 | 284.1 | 279.8 |
| 38 | 457.20 | 70.00 | 0.00 | 125.516 | 3.584 | 0.010 | 290.6 | 282.6 | 284.1 | 281.2 |
| 39 | 457.20 | 75.00 | 0.00 | 125.499 | 2.898 | 0.010 | 290.9 | 282.7 | 284.9 | 282.5 |
| 40 | 457.20 | 80.00 | 0.00 | 125.469 | 1.906 | 0.010 | 291.2 | 282.7 | 285.5 | 283.9 |
| 41 | 457.20 | 85.00 | 0.00 | 125.526 | 1.321 | 0.010 | 291.0 | 282.6 | 285.7 | 284.6 |
| 42 | 457.20 | 90.00 | 0.00 | 125.502 | 0.803 | 0.010 | 291.1 | 282.6 | 286.2 | 285.5 |
| 43 | 457.20 | 95.00 | 0.00 | 125.467 | 0.508 | 0.010 | 290.9 | 282.7 | 286.6 | 286.2 |
| 44 | 457.20 | 100.00 | 0.00 | 125.472 | 0.197 | 0.011 | 290.5 | 282.7 | 287.7 | 287.5 |
| 45 | 457.20 | 105.00 | 0.00 | 125.426 | 0.034 | 0.010 | 290.4 | 282.6 | 287.7 | 287.7 |
| 46 | 457.20 | 110.00 | 0.00 | 125.401 | 0.074 | 0.010 | 290.3 | 282.6 | 288.1 | 288.0 |

File : TAB227T 15-DEC-88
15-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

*Unexcited, unheated jet, Mj = 1.15*
DRPTAB, PLTDMN
Config III(b), +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 125.061 kPa
RMS gauged plenum pressure : 0.640 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.301 | 0.049 | 0.012 | 284.0 | 283.8 | 283.3 | 283.3 |
| 3 | 457.20 | -105.00 | 0.00 | 124.071 | 0.197 | 0.012 | 283.9 | 283.9 | 283.3 | 283.1 |
| 4 | 457.20 | -100.00 | 0.00 | 124.961 | 0.327 | 0.012 | 283.9 | 283.9 | 283.4 | 283.1 |
| 5 | 457.20 | -95.00 | 0.00 | 124.967 | 0.533 | 0.012 | 284.0 | 283.9 | 283.5 | 283.1 |
| 6 | 457.20 | -90.00 | 0.00 | 125.022 | 0.889 | 0.012 | 284.1 | 283.9 | 283.5 | 282.8 |
| 7 | 457.20 | -85.00 | 0.00 | 125.061 | 1.638 | 0.012 | 284.1 | 283.9 | 283.6 | 282.3 |
| 8 | 457.20 | -80.00 | 0.00 | 125.113 | 2.689 | 0.012 | 284.1 | 284.0 | 283.7 | 281.5 |
| 9 | 457.20 | -75.00 | 0.00 | 125.167 | 4.215 | 0.012 | 284.2 | 284.0 | 283.8 | 280.4 |
| 10 | 457.20 | -70.00 | 0.00 | 125.397 | 5.522 | 0.012 | 284.2 | 284.0 | 283.8 | 279.4 |
| 11 | 457.20 | -65.00 | 0.00 | 125.600 | 7.794 | 0.012 | 284.2 | 284.0 | 283.7 | 277.6 |
| 12 | 457.20 | -60.00 | 0.00 | 125.765 | 10.576 | 0.012 | 284.3 | 284.0 | 283.7 | 275.5 |
| 13 | 457.20 | -55.00 | 0.00 | 125.925 | 14.141 | 0.012 | 284.3 | 284.0 | 283.7 | 273.0 |
| 14 | 457.20 | -50.00 | 0.00 | 126.074 | 18.213 | 0.011 | 284.4 | 284.0 | 283.6 | 270.2 |
| 15 | 457.20 | -45.00 | 0.00 | 126.256 | 22.674 | 0.011 | 284.3 | 284.0 | 283.5 | 267.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 126.327 | 28.451 | 0.012 | 284.3 | 284.0 | 283.7 | 263.8 |
| 17 | 457.20 | -35.00 | 0.00 | 126.260 | 33.821 | 0.012 | 284.2 | 284.0 | 283.7 | 260.7 |
| 18 | 457.20 | -30.00 | 0.00 | 125.931 | 37.692 | 0.011 | 284.3 | 284.0 | 283.7 | 258.6 |
| 19 | 457.20 | -25.00 | 0.00 | 125.690 | 39.259 | 0.012 | 284.4 | 284.0 | 283.6 | 257.6 |
| 20 | 457.20 | -20.00 | 0.00 | 125.088 | 38.906 | 0.012 | 284.4 | 284.0 | 283.3 | 257.5 |
| 21 | 457.20 | -15.00 | 0.00 | 124.792 | 37.015 | 0.012 | 284.4 | 284.0 | 283.2 | 258.5 |
| 22 | 457.20 | -10.00 | 0.00 | 124.425 | 34.329 | 0.012 | 284.5 | 284.0 | 283.1 | 259.9 |
| 23 | 457.20 | -5.00 | 0.00 | 124.294 | 32.082 | 0.012 | 284.4 | 284.0 | 283.0 | 261.0 |
| 24 | 457.20 | 0.00 | 0.00 | 124.288 | 30.253 | 0.012 | 284.5 | 284.0 | 283.1 | 262.2 |
| 25 | 457.20 | 5.00 | 0.00 | 124.471 | 30.130 | 0.012 | 284.6 | 284.0 | 283.3 | 262.4 |
| 26 | 457.20 | 10.00 | 0.00 | 124.652 | 31.009 | 0.012 | 284.7 | 284.0 | 283.6 | 262.2 |
| 27 | 457.20 | 15.00 | 0.00 | 124.683 | 32.780 | 0.012 | 284.8 | 284.0 | 283.9 | 261.5 |
| 28 | 457.20 | 20.00 | 0.00 | 124.868 | 34.392 | 0.012 | 284.9 | 284.0 | 283.9 | 260.6 |
| 29 | 457.20 | 25.00 | 0.00 | 124.908 | 35.337 | 0.012 | 284.9 | 284.0 | 284.0 | 260.1 |
| 30 | 457.20 | 30.00 | 0.00 | 125.028 | 34.835 | 0.012 | 284.9 | 284.0 | 284.2 | 260.6 |
| 31 | 457.20 | 35.00 | 0.00 | 125.062 | 32.123 | 0.013 | 284.9 | 284.0 | 284.1 | 262.0 |
| 32 | 457.20 | 40.00 | 0.00 | 125.236 | 28.096 | 0.012 | 285.0 | 284.0 | 284.3 | 264.6 |
| 33 | 457.20 | 45.00 | 0.00 | 125.364 | 23.716 | 0.015 | 284.9 | 284.0 | 284.3 | 267.3 |
| 34 | 457.20 | 50.00 | 0.00 | 125.534 | 19.117 | 0.013 | 284.9 | 284.0 | 284.3 | 270.2 |
| 35 | 457.20 | 55.00 | 0.00 | 125.626 | 15.094 | 0.013 | 285.1 | 284.0 | 284.3 | 272.9 |
| 36 | 457.20 | 60.00 | 0.00 | 125.710 | 11.717 | 0.013 | 285.0 | 284.0 | 284.3 | 275.3 |
| 37 | 457.20 | 65.00 | 0.00 | 125.882 | 8.763 | 0.014 | 285.0 | 284.0 | 284.4 | 277.5 |
| 38 | 457.20 | 70.00 | 0.00 | 124.456 | 6.612 | 0.012 | 285.0 | 284.0 | 284.4 | 279.2 |
| 39 | 457.20 | 75.00 | 0.00 | 123.898 | 5.479 | 0.014 | 285.0 | 283.9 | 284.4 | 280.0 |
| 40 | 457.20 | 80.00 | 0.00 | 123.990 | 4.192 | 0.016 | 285.0 | 283.9 | 284.4 | 281.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.260 | 2.770 | 0.017 | 285.0 | 283.9 | 284.5 | 282.3 |
| 42 | 457.20 | 90.00 | 0.00 | 124.478 | 1.751 | 0.021 | 285.0 | 284.0 | 284.5 | 283.1 |
| 43 | 457.20 | 95.00 | 0.00 | 124.627 | 1.123 | 0.020 | 285.1 | 283.9 | 284.5 | 283.6 |
| 44 | 457.20 | 100.00 | 0.00 | 124.380 | 0.571 | 0.018 | 285.2 | 283.9 | 284.5 | 284.0 |
| 45 | 457.20 | 105.00 | 0.00 | 124.620 | 0.391 | 0.020 | 285.1 | 284.0 | 284.6 | 284.3 |
| 46 | 457.20 | 110.00 | 0.00 | 124.713 | 0.135 | 0.021 | 285.2 | 283.9 | 284.6 | 284.5 |

File : TAB191T

17-DEC-88
30-NOV-88

Reduced experimental data file .

*HORIZONTAL PROFILE*

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config II(a)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.341 kPa

Mean gauged plenum pressure : 125.075 kPa
RMS gauged plenum pressure : 0.315 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.218 | 0.101 | 0.012 | 278.7 | 282.9 | 278.5 | 278.4 |
| 3 | 457.20 | -105.00 | 0.00 | 125.231 | 0.056 | 0.013 | 278.7 | 282.9 | 278.8 | 278.8 |
| 4 | 457.20 | -100.00 | 0.00 | 125.216 | 0.026 | 0.015 | 278.7 | 283.0 | 278.8 | 278.8 |
| 5 | 457.20 | -95.00 | 0.00 | 125.100 | 0.017 | 0.013 | 278.7 | 283.0 | 278.6 | 278.6 |
| 6 | 457.20 | -90.00 | 0.00 | 125.192 | 0.013 | 0.012 | 278.8 | 283.0 | 278.8 | 278.8 |
| 7 | 457.20 | -85.00 | 0.00 | 125.034 | 0.013 | 0.015 | 278.8 | 283.1 | 278.6 | 278.6 |
| 8 | 457.20 | -80.00 | 0.00 | 125.028 | 0.012 | 0.019 | 278.8 | 283.0 | 278.5 | 278.5 |
| 9 | 457.20 | -75.00 | 0.00 | 125.047 | 0.012 | 0.015 | 278.8 | 283.0 | 278.4 | 278.4 |
| 10 | 457.20 | -70.00 | 0.00 | 124.991 | 0.018 | 0.017 | 278.9 | 283.1 | 278.1 | 278.1 |
| 11 | 457.20 | -65.00 | 0.00 | 124.889 | 0.089 | 0.017 | 278.9 | 283.0 | 277.9 | 277.8 |
| 12 | 457.20 | -60.00 | 0.00 | 124.934 | 0.327 | 0.020 | 278.9 | 283.0 | 277.5 | 277.2 |
| 13 | 457.20 | -55.00 | 0.00 | 124.924 | 0.734 | 0.018 | 278.9 | 283.0 | 277.1 | 276.5 |
| 14 | 457.20 | -50.00 | 0.00 | 124.972 | 1.491 | 0.021 | 278.9 | 283.0 | 276.5 | 275.3 |
| 15 | 457.20 | -45.00 | 0.00 | 125.019 | 2.598 | 0.021 | 278.9 | 283.0 | 276.1 | 274.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.973 | 4.407 | 0.024 | 278.9 | 283.1 | 276.1 | 272.7 |
| 17 | 457.20 | -35.00 | 0.00 | 125.151 | 6.745 | 0.029 | 278.9 | 283.0 | 275.0 | 269.8 |
| 18 | 457.20 | -30.00 | 0.00 | 125.335 | 10.499 | 0.024 | 278.9 | 283.1 | 0.0 | 0.0 |
| 19 | 457.20 | -25.00 | 0.00 | 125.413 | 15.443 | 0.024 | 278.9 | 283.0 | 201.6 | 193.3 |
| 20 | 457.20 | -20.00 | 0.00 | 125.359 | 22.455 | 0.026 | 279.0 | 283.0 | 0.0 | 0.0 |
| 21 | 457.20 | -15.00 | 0.00 | 125.358 | 30.852 | 0.027 | 278.9 | 283.0 | 0.0 | 0.0 |
| 22 | 457.20 | -10.00 | 0.00 | 125.380 | 39.166 | 0.027 | 279.0 | 283.0 | 196.3 | 178.3 |
| 23 | 457.20 | -5.00 | 0.00 | 125.296 | 46.161 | 0.025 | 279.0 | 283.0 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | 0.00 | 125.124 | 48.034 | 0.026 | 279.0 | 283.0 | 106.2 | 94.8 |
| 25 | 457.20 | 5.00 | 0.00 | 125.146 | 43.439 | 0.030 | 279.1 | 283.1 | 93.0 | 83.7 |
| 26 | 457.20 | 10.00 | 0.00 | 125.327 | 36.776 | 0.026 | 279.1 | 283.1 | 285.8 | 260.9 |
| 27 | 457.20 | 15.00 | 0.00 | 125.232 | 27.066 | 0.028 | 279.2 | 283.1 | 292.3 | 272.6 |
| 28 | 457.20 | 20.00 | 0.00 | 125.270 | 19.250 | 0.026 | 279.2 | 283.1 | 190.8 | 181.3 |
| 29 | 457.20 | 25.00 | 0.00 | 125.250 | 13.027 | 0.028 | 279.3 | 283.1 | 285.5 | 275.5 |
| 30 | 457.20 | 30.00 | 0.00 | 125.345 | 7.923 | 0.031 | 279.3 | 283.1 | 100.1 | 97.9 |
| 31 | 457.20 | 35.00 | 0.00 | 125.383 | 4.962 | 0.027 | 279.4 | 283.1 | 0.0 | 0.0 |
| 32 | 457.20 | 40.00 | 0.00 | 125.317 | 2.924 | 0.027 | 279.3 | 283.1 | 0.0 | 0.0 |
| 33 | 457.20 | 45.00 | 0.00 | 125.381 | 1.539 | 0.030 | 279.3 | 283.0 | 0.0 | 0.0 |
| 34 | 457.20 | 50.00 | 0.00 | 125.376 | 0.804 | 0.024 | 279.4 | 283.1 | 0.0 | 0.0 |
| 35 | 457.20 | 55.00 | 0.00 | 125.395 | 0.337 | 0.027 | 279.5 | 283.1 | 0.0 | 0.0 |
| 36 | 457.20 | 60.00 | 0.00 | 125.353 | 0.065 | 0.024 | 279.5 | 283.0 | 0.0 | 0.0 |
| 37 | 457.20 | 65.00 | 0.00 | 125.392 | 0.013 | 0.022 | 279.5 | 283.1 | 0.0 | 0.0 |
| 38 | 457.20 | 70.00 | 0.00 | 125.408 | 0.010 | 0.028 | 279.5 | 283.0 | 0.0 | 0.0 |
| 39 | 457.20 | 75.00 | 0.00 | 124.754 | 0.011 | 0.027 | 279.5 | 283.1 | 0.0 | 0.0 |
| 40 | 457.20 | 80.00 | 0.00 | 124.690 | 0.011 | 0.023 | 279.5 | 283.1 | 0.0 | 0.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.685 | 0.012 | 0.024 | 279.5 | 283.1 | 0.0 | 0.0 |
| 42 | 457.20 | 90.00 | 0.00 | 124.529 | 0.013 | 0.025 | 279.4 | 283.0 | 0.0 | 0.0 |
| 43 | 457.20 | 95.00 | 0.00 | 124.429 | 0.013 | 0.022 | 279.5 | 283.0 | 0.0 | 0.0 |
| 44 | 457.20 | 100.00 | 0.00 | 124.564 | 0.013 | 0.021 | 279.6 | 283.0 | 0.0 | 0.0 |
| 45 | 457.20 | 105.00 | 0.00 | 124.407 | 0.011 | 0.022 | 279.6 | 283.0 | 0.0 | 0.0 |
| 46 | 457.20 | 110.00 | 0.00 | 124.300 | 0.013 | 0.025 | 279.6 | 283.1 | 0.0 | 0.0 |

File : TAB206T

19-DEC-88
1-DEC-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config II(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.408 kPa

Mean gauged plenum pressure : 124.978 kPa
RMS gauged plenum pressure : 0.260 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 125.172 | 0.749 | 0.012 | 283.8 | 282.9 | 0.0 | 0.0 |
| 3 | 457.20 | 0.00 | -97.00 | 125.640 | 1.092 | 0.012 | 283.8 | 282.9 | 0.0 | 0.0 |
| 4 | 457.20 | 0.00 | -94.00 | 125.658 | 1.520 | 0.012 | 283.8 | 282.9 | 0.0 | 0.0 |
| 5 | 457.20 | 0.00 | -91.00 | 125.298 | 2.103 | 0.012 | 283.9 | 283.0 | 0.0 | 0.0 |
| 6 | 457.20 | 0.00 | -88.00 | 125.363 | 2.725 | 0.012 | 283.9 | 283.0 | 0.0 | 0.0 |
| 7 | 457.20 | 0.00 | -85.00 | 125.126 | 3.954 | 0.012 | 284.0 | 282.9 | 0.0 | 0.0 |
| 8 | 457.20 | 0.00 | -82.00 | 125.077 | 4.620 | 0.012 | 284.0 | 283.0 | 0.0 | 0.0 |
| 9 | 457.20 | 0.00 | -79.00 | 125.011 | 6.046 | 0.012 | 284.1 | 283.0 | 0.0 | 0.0 |
| 10 | 457.20 | 0.00 | -76.00 | 125.042 | 7.662 | 0.012 | 284.0 | 283.0 | 0.0 | 0.0 |
| 11 | 457.20 | 0.00 | -73.00 | 124.960 | 8.860 | 0.011 | 284.0 | 282.9 | 0.0 | 0.0 |
| 12 | 457.20 | 0.00 | -70.00 | 124.962 | 10.402 | 0.011 | 283.8 | 282.9 | 0.0 | 0.0 |
| 13 | 457.20 | 0.00 | -67.00 | 125.026 | 12.230 | 0.012 | 283.8 | 282.9 | 0.0 | 0.0 |
| 14 | 457.20 | 0.00 | -64.00 | 124.971 | 14.413 | 0.011 | 283.8 | 282.9 | 0.0 | 0.0 |
| 15 | 457.20 | 0.00 | -61.00 | 124.966 | 16.053 | 0.011 | 283.7 | 282.9 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 124.970 | 18.251 | 0.011 | 283.7 | 282.9 | 0.0 | 0.0 |
| 17 | 457.20 | 0.00 | -55.00 | 124.982 | 20.161 | 0.011 | 283.8 | 282.9 | 0.0 | 0.0 |
| 18 | 457.20 | 0.00 | -52.00 | 125.073 | 22.110 | 0.011 | 283.9 | 282.9 | 0.0 | 0.0 |
| 19 | 457.20 | 0.00 | -49.00 | 125.129 | 23.898 | 0.011 | 283.8 | 282.9 | 0.0 | 0.0 |
| 20 | 457.20 | 0.00 | -46.00 | 125.073 | 25.811 | 0.011 | 283.7 | 282.9 | 0.0 | 0.0 |
| 21 | 457.20 | 0.00 | -43.00 | 125.087 | 27.239 | 0.011 | 283.7 | 283.0 | 0.0 | 0.0 |
| 22 | 457.20 | 0.00 | -40.00 | 125.124 | 29.023 | 0.011 | 283.7 | 282.9 | 0.0 | 0.0 |
| 23 | 457.20 | 0.00 | -37.00 | 125.160 | 30.079 | 0.011 | 283.9 | 282.9 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | -34.00 | 125.248 | 32.031 | 0.011 | 283.8 | 283.0 | 0.0 | 0.0 |
| 25 | 457.20 | 0.00 | -31.00 | 124.835 | 32.900 | 0.011 | 283.8 | 282.9 | 0.0 | 0.0 |
| 26 | 457.20 | 0.00 | -28.00 | 124.828 | 35.378 | 0.011 | 283.8 | 282.9 | 0.0 | 0.0 |
| 27 | 457.20 | 0.00 | -25.00 | 124.826 | 36.610 | 0.011 | 283.8 | 282.9 | 0.0 | 0.0 |
| 28 | 457.20 | 0.00 | -22.00 | 124.881 | 38.681 | 0.011 | 283.7 | 282.9 | 0.0 | 0.0 |
| 29 | 457.20 | 0.00 | -19.00 | 124.750 | 39.707 | 0.011 | 283.6 | 282.9 | 0.0 | 0.0 |
| 30 | 457.20 | 0.00 | -16.00 | 124.788 | 41.914 | 0.011 | 283.5 | 282.9 | 0.0 | 0.0 |
| 31 | 457.20 | 0.00 | -13.00 | 124.918 | 42.344 | 0.011 | 283.4 | 282.9 | 0.0 | 0.0 |
| 32 | 457.20 | 0.00 | -10.00 | 124.838 | 44.530 | 0.011 | 283.3 | 282.9 | 0.0 | 0.0 |
| 33 | 457.20 | 0.00 | -7.00 | 124.767 | 46.036 | 0.011 | 283.3 | 282.8 | 0.0 | 0.0 |
| 34 | 457.20 | 0.00 | -4.00 | 124.791 | 47.555 | 0.011 | 283.4 | 282.8 | 0.0 | 0.0 |
| 35 | 457.20 | 0.00 | -1.00 | 124.777 | 48.762 | 0.011 | 283.3 | 282.9 | 0.0 | 0.0 |
| 36 | 457.20 | 0.00 | 2.00 | 124.778 | 49.644 | 0.012 | 283.2 | 282.9 | 0.0 | 0.0 |
| 37 | 457.20 | 0.00 | 5.00 | 124.711 | 48.975 | 0.012 | 283.1 | 282.8 | 0.0 | 0.0 |
| 38 | 457.20 | 0.00 | 8.00 | 124.712 | 48.692 | 0.012 | 283.2 | 282.8 | 0.0 | 0.0 |
| 39 | 457.20 | 0.00 | 11.00 | 124.745 | 47.636 | 0.012 | 283.1 | 282.8 | 0.0 | 0.0 |
| 40 | 457.20 | 0.00 | 14.00 | 124.676 | 46.281 | 0.012 | 283.1 | 282.8 | 0.0 | 0.0 |
| 41 | 457.20 | 0.00 | 17.00 | 124.722 | 45.086 | 0.012 | 283.1 | 282.8 | 124.6 | 111.8 |
| 42 | 457.20 | 0.00 | 20.00 | 124.757 | 42.541 | 0.012 | 283.1 | 282.8 | 0.0 | 0.0 |

File : TAB220T 7-DEC-88
7-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config II(a), -14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.036 kPa

Mean gauged plenum pressure : 124.604 kPa
RMS gauged plenum pressure : 0.663 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 121.165 | 0.090 | 0.012 | 291.6 | 282.9 | 290.8 | 290.7 |
| 3 | 457.20 | -105.00 | 0.00 | 124.015 | 0.040 | 0.012 | 291.5 | 282.9 | 290.9 | 290.9 |
| 4 | 457.20 | -100.00 | 0.00 | 124.302 | 0.018 | 0.013 | 291.6 | 282.9 | 291.0 | 291.0 |
| 5 | 457.20 | -95.00 | 0.00 | 123.669 | 0.013 | 0.013 | 291.4 | 283.0 | 291.0 | 291.0 |
| 6 | 457.20 | -90.00 | 0.00 | 123.179 | 0.012 | 0.012 | 291.6 | 283.0 | 291.1 | 291.1 |
| 7 | 457.20 | -85.00 | 0.00 | 124.877 | 0.011 | 0.013 | 291.6 | 283.0 | 291.1 | 291.1 |
| 8 | 457.20 | -80.00 | 0.00 | 124.729 | 0.009 | 0.012 | 291.7 | 283.0 | 291.1 | 291.1 |
| 9 | 457.20 | -75.00 | 0.00 | 124.662 | 0.007 | 0.013 | 291.6 | 283.0 | 291.1 | 291.1 |
| 10 | 457.20 | -70.00 | 0.00 | 124.600 | 0.011 | 0.013 | 291.7 | 283.0 | 291.1 | 291.1 |
| 11 | 457.20 | -65.00 | 0.00 | 124.517 | 0.012 | 0.012 | 291.6 | 283.1 | 291.1 | 291.1 |
| 12 | 457.20 | -60.00 | 0.00 | 124.554 | 0.195 | 0.012 | 291.6 | 283.0 | 291.1 | 290.9 |
| 13 | 457.20 | -55.00 | 0.00 | 124.557 | 0.523 | 0.012 | 291.5 | 283.0 | 291.1 | 290.7 |
| 14 | 457.20 | -50.00 | 0.00 | 124.695 | 1.359 | 0.012 | 291.5 | 283.1 | 291.1 | 290.0 |
| 15 | 457.20 | -45.00 | 0.00 | 124.784 | 2.409 | 0.013 | 291.5 | 283.0 | 291.0 | 289.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.790 | 4.201 | 0.012 | 291.5 | 283.0 | 291.0 | 287.5 |
| 17 | 457.20 | -35.00 | 0.00 | 124.833 | 6.877 | 0.012 | 292.0 | 283.0 | 291.0 | 285.4 |
| 18 | 457.20 | -30.00 | 0.00 | 125.039 | 10.333 | 0.011 | 292.4 | 283.0 | 291.2 | 283.0 |
| 19 | 457.20 | -25.00 | 0.00 | 125.221 | 15.833 | 0.012 | 292.3 | 283.0 | 291.2 | 279.0 |
| 20 | 457.20 | -20.00 | 0.00 | 125.289 | 22.140 | 0.012 | 292.2 | 283.0 | 291.2 | 274.7 |
| 21 | 457.20 | -15.00 | 0.00 | 125.364 | 30.735 | 0.012 | 292.4 | 283.0 | 291.2 | 269.3 |
| 22 | 457.20 | -10.00 | 0.00 | 125.251 | 39.851 | 0.012 | 293.1 | 283.0 | 291.2 | 264.1 |
| 23 | 457.20 | -5.00 | 0.00 | 125.155 | 46.772 | 0.012 | 292.7 | 282.9 | 291.1 | 260.3 |
| 24 | 457.20 | 0.00 | 0.00 | 125.033 | 49.179 | 0.013 | 292.0 | 283.0 | 291.0 | 259.0 |
| 25 | 457.20 | 5.00 | 0.00 | 124.905 | 45.045 | 0.012 | 291.7 | 282.9 | 290.8 | 261.0 |
| 26 | 457.20 | 10.00 | 0.00 | 124.846 | 36.650 | 0.012 | 291.4 | 282.9 | 290.5 | 265.2 |
| 27 | 457.20 | 15.00 | 0.00 | 124.811 | 28.134 | 0.012 | 291.4 | 282.9 | 290.4 | 270.2 |
| 28 | 457.20 | 20.00 | 0.00 | 124.760 | 19.168 | 0.012 | 291.5 | 282.9 | 290.3 | 275.8 |
| 29 | 457.20 | 25.00 | 0.00 | 124.816 | 12.498 | 0.012 | 291.5 | 282.9 | 290.3 | 280.5 |
| 30 | 457.20 | 30.00 | 0.00 | 124.843 | 7.778 | 0.012 | 291.4 | 282.9 | 290.2 | 283.9 |
| 31 | 457.20 | 35.00 | 0.00 | 124.945 | 4.575 | 0.012 | 291.2 | 282.9 | 290.0 | 286.2 |
| 32 | 457.20 | 40.00 | 0.00 | 124.854 | 2.793 | 0.012 | 291.2 | 283.0 | 290.0 | 287.7 |
| 33 | 457.20 | 45.00 | 0.00 | 124.580 | 1.281 | 0.012 | 291.3 | 282.9 | 290.0 | 288.9 |
| 34 | 457.20 | 50.00 | 0.00 | 124.692 | 0.573 | 0.012 | 291.2 | 282.9 | 290.0 | 289.5 |
| 35 | 457.20 | 55.00 | 0.00 | 124.776 | 0.207 | 0.012 | 291.2 | 282.9 | 289.9 | 289.7 |
| 36 | 457.20 | 60.00 | 0.00 | 124.767 | 0.049 | 0.012 | 291.3 | 282.9 | 290.0 | 290.0 |
| 37 | 457.20 | 65.00 | 0.00 | 124.722 | 0.008 | 0.012 | 291.2 | 282.9 | 290.1 | 290.1 |
| 38 | 457.20 | 70.00 | 0.00 | 124.616 | 0.007 | 0.012 | 291.2 | 282.8 | 290.2 | 290.2 |
| 39 | 457.20 | 75.00 | 0.00 | 124.576 | 0.007 | 0.012 | 291.4 | 282.9 | 290.3 | 290.3 |
| 40 | 457.20 | 80.00 | 0.00 | 124.498 | 0.008 | 0.012 | 291.6 | 282.9 | 290.5 | 290.5 |
| 41 | 457.20 | 85.00 | 0.00 | 124.456 | 0.008 | 0.013 | 291.5 | 282.8 | 290.5 | 290.5 |
| 42 | 457.20 | 90.00 | 0.00 | 124.469 | 0.009 | 0.013 | 291.4 | 282.8 | 290.5 | 290.5 |
| 43 | 457.20 | 95.00 | 0.00 | 124.462 | 0.009 | 0.013 | 291.5 | 282.8 | 290.6 | 290.6 |
| 44 | 457.20 | 100.00 | 0.00 | 124.526 | 0.009 | 0.015 | 291.5 | 282.9 | 290.7 | 290.7 |
| 45 | 457.20 | 105.00 | 0.00 | 124.601 | 0.010 | 0.015 | 291.5 | 282.8 | 290.7 | 290.7 |
| 46 | 457.20 | 110.00 | 0.00 | 124.681 | 0.010 | 0.013 | 291.5 | 282.8 | 290.7 | 290.7 |

File : TAB228T 15-DEC-88
15-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config IV(a), +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 125.061 kPa
RMS gauged plenum pressure : 0.668 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.904 | 0.070 | 0.012 | 285.5 | 283.9 | 284.9 | 284.8 |
| 3 | 457.20 | -105.00 | 0.00 | 124.621 | 0.032 | 0.012 | 285.6 | 284.0 | 285.1 | 285.1 |
| 4 | 457.20 | -100.00 | 0.00 | 126.107 | 0.014 | 0.012 | 285.6 | 283.9 | 285.1 | 285.1 |
| 5 | 457.20 | -95.00 | 0.00 | 124.736 | 0.013 | 0.012 | 285.6 | 284.0 | 285.2 | 285.2 |
| 6 | 457.20 | -90.00 | 0.00 | 124.720 | 0.011 | 0.012 | 285.6 | 284.0 | 285.2 | 285.2 |
| 7 | 457.20 | -85.00 | 0.00 | 124.663 | 0.011 | 0.013 | 285.6 | 284.0 | 285.2 | 285.2 |
| 8 | 457.20 | -80.00 | 0.00 | 124.447 | 0.009 | 0.012 | 285.7 | 284.0 | 285.2 | 285.2 |
| 9 | 457.20 | -75.00 | 0.00 | 124.323 | 0.009 | 0.012 | 285.7 | 284.0 | 285.1 | 285.1 |
| 10 | 457.20 | -70.00 | 0.00 | 124.199 | 0.010 | 0.012 | 285.7 | 284.0 | 285.1 | 285.1 |
| 11 | 457.20 | -65.00 | 0.00 | 124.175 | 0.011 | 0.012 | 285.7 | 284.0 | 285.1 | 285.1 |
| 12 | 457.20 | -60.00 | 0.00 | 124.169 | 0.157 | 0.013 | 285.7 | 284.0 | 284.9 | 284.8 |
| 13 | 457.20 | -55.00 | 0.00 | 124.245 | 0.344 | 0.013 | 285.7 | 284.0 | 284.9 | 284.6 |
| 14 | 457.20 | -50.00 | 0.00 | 124.354 | 1.019 | 0.012 | 285.8 | 284.0 | 285.0 | 284.2 |
| 15 | 457.20 | -45.00 | 0.00 | 124.349 | 1.801 | 0.014 | 285.8 | 284.0 | 285.1 | 283.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.475 | 3.074 | 0.013 | 285.9 | 284.0 | 284.9 | 282.4 |
| 17 | 457.20 | -35.00 | 0.00 | 124.662 | 5.171 | 0.014 | 285.9 | 284.1 | 284.4 | 280.3 |
| 18 | 457.20 | -30.00 | 0.00 | 124.867 | 8.199 | 0.018 | 285.8 | 284.1 | 284.3 | 277.9 |
| 19 | 457.20 | -25.00 | 0.00 | 124.023 | 12.261 | 0.013 | 285.9 | 284.1 | 284.0 | 274.6 |
| 20 | 457.20 | -20.00 | 0.00 | 124.223 | 17.694 | 0.016 | 286.0 | 284.1 | 284.0 | 270.9 |
| 21 | 457.20 | -15.00 | 0.00 | 124.483 | 26.692 | 0.012 | 286.1 | 284.1 | 284.2 | 265.3 |
| 22 | 457.20 | -10.00 | 0.00 | 124.671 | 35.194 | 0.014 | 286.1 | 284.1 | 284.2 | 260.4 |
| 23 | 457.20 | -5.00 | 0.00 | 124.966 | 45.431 | 0.014 | 286.2 | 284.1 | 285.0 | 255.7 |
| 24 | 457.20 | 0.00 | 0.00 | 125.212 | 49.778 | 0.016 | 286.2 | 284.1 | 285.3 | 253.7 |
| 25 | 457.20 | 5.00 | 0.00 | 125.323 | 48.893 | 0.013 | 286.3 | 284.1 | 285.2 | 254.1 |
| 26 | 457.20 | 10.00 | 0.00 | 125.520 | 42.108 | 0.015 | 286.3 | 284.1 | 285.0 | 257.4 |
| 27 | 457.20 | 15.00 | 0.00 | 125.168 | 32.618 | 0.015 | 286.2 | 284.1 | 285.0 | 262.6 |
| 28 | 457.20 | 20.00 | 0.00 | 125.371 | 23.919 | 0.016 | 286.2 | 284.1 | 285.1 | 267.9 |
| 29 | 457.20 | 25.00 | 0.00 | 125.439 | 16.125 | 0.015 | 286.3 | 284.1 | 285.2 | 273.1 |
| 30 | 457.20 | 30.00 | 0.00 | 125.497 | 10.746 | 0.014 | 286.5 | 284.0 | 285.3 | 277.0 |
| 31 | 457.20 | 35.00 | 0.00 | 125.051 | 7.062 | 0.014 | 286.5 | 284.1 | 285.4 | 279.8 |
| 32 | 457.20 | 40.00 | 0.00 | 125.168 | 4.166 | 0.015 | 286.7 | 284.1 | 285.4 | 282.0 |
| 33 | 457.20 | 45.00 | 0.00 | 125.240 | 2.165 | 0.016 | 286.6 | 284.1 | 285.5 | 283.7 |
| 34 | 457.20 | 50.00 | 0.00 | 125.398 | 1.196 | 0.016 | 286.7 | 284.1 | 285.6 | 284.6 |
| 35 | 457.20 | 55.00 | 0.00 | 125.498 | 0.692 | 0.014 | 286.9 | 284.1 | 285.8 | 285.2 |
| 36 | 457.20 | 60.00 | 0.00 | 125.644 | 0.262 | 0.015 | 286.8 | 284.1 | 285.8 | 285.6 |
| 37 | 457.20 | 65.00 | 0.00 | 125.936 | 0.045 | 0.013 | 286.9 | 284.1 | 285.9 | 285.9 |
| 38 | 457.20 | 70.00 | 0.00 | 126.140 | 0.010 | 0.017 | 286.8 | 284.1 | 285.9 | 285.9 |
| 39 | 457.20 | 75.00 | 0.00 | 126.182 | 0.009 | 0.016 | 286.7 | 284.1 | 285.9 | 285.9 |
| 40 | 457.20 | 80.00 | 0.00 | 126.026 | 0.009 | 0.015 | 286.8 | 284.1 | 285.9 | 285.9 |
| 41 | 457.20 | 85.00 | 0.00 | 125.948 | 0.009 | 0.015 | 286.7 | 284.1 | 286.0 | 286.0 |
| 42 | 457.20 | 90.00 | 0.00 | 125.905 | 0.009 | 0.019 | 286.8 | 284.1 | 286.0 | 286.0 |
| 43 | 457.20 | 95.00 | 0.00 | 125.786 | 0.010 | 0.016 | 286.8 | 284.1 | 286.0 | 286.0 |
| 44 | 457.20 | 100.00 | 0.00 | 125.782 | 0.010 | 0.017 | 286.7 | 284.1 | 285.9 | 285.9 |
| 45 | 457.20 | 105.00 | 0.00 | 125.338 | 0.011 | 0.023 | 286.7 | 284.1 | 285.9 | 285.9 |
| 46 | 457.20 | 110.00 | 0.00 | 124.813 | 0.011 | 0.016 | 286.8 | 284.1 | 285.9 | 285.9 |

File : TAB200T

18-DEC-88
1-DEC-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config II(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.679 kPa

Mean gauged plenum pressure : 124.481 kPa
RMS gauged plenum pressure : 0.423 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.794 | 0.017 | 0.013 | 281.1 | 282.6 | 0.0 | 0.0 |
| 3 | 457.20 | -105.00 | 0.00 | 124.828 | 0.011 | 0.018 | 281.2 | 282.6 | 0.0 | 0.0 |
| 4 | 457.20 | -100.00 | 0.00 | 124.866 | 0.009 | 0.020 | 281.2 | 282.6 | 0.0 | 0.0 |
| 5 | 457.20 | -95.00 | 0.00 | 124.780 | 0.009 | 0.015 | 281.3 | 282.6 | 0.0 | 0.0 |
| 6 | 457.20 | -90.00 | 0.00 | 124.708 | 0.020 | 0.024 | 281.3 | 282.6 | 0.0 | 0.0 |
| 7 | 457.20 | -85.00 | 0.00 | 124.625 | 0.181 | 0.019 | 281.4 | 282.6 | 0.0 | 0.0 |
| 8 | 457.20 | -80.00 | 0.00 | 124.693 | 0.413 | 0.021 | 281.5 | 282.6 | 0.0 | 0.0 |
| 9 | 457.20 | -75.00 | 0.00 | 124.625 | 0.897 | 0.024 | 281.4 | 282.6 | 0.0 | 0.0 |
| 10 | 457.20 | -70.00 | 0.00 | 124.628 | 1.527 | 0.019 | 281.4 | 282.6 | 0.0 | 0.0 |
| 11 | 457.20 | -65.00 | 0.00 | 124.734 | 2.444 | 0.020 | 281.5 | 282.6 | 0.0 | 0.0 |
| 12 | 457.20 | -60.00 | 0.00 | 124.810 | 3.836 | 0.020 | 281.5 | 282.7 | 0.0 | 0.0 |
| 13 | 457.20 | -55.00 | 0.00 | 124.898 | 5.532 | 0.024 | 281.6 | 282.6 | 0.0 | 0.0 |
| 14 | 457.20 | -50.00 | 0.00 | 124.482 | 7.703 | 0.023 | 281.7 | 282.7 | 0.0 | 0.0 |
| 15 | 457.20 | -45.00 | 0.00 | 124.029 | 10.693 | 0.024 | 281.6 | 282.6 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.062 | 14.343 | 0.018 | 281.7 | 282.6 | 0.0 | 0.0 |
| 17 | 457.20 | -35.00 | 0.00 | 124.085 | 18.732 | 0.018 | 281.8 | 282.7 | 0.0 | 0.0 |
| 18 | 457.20 | -30.00 | 0.00 | 123.960 | 23.905 | 0.023 | 281.8 | 282.6 | 0.0 | 0.0 |
| 19 | 457.20 | -25.00 | 0.00 | 124.877 | 30.089 | 0.019 | 281.8 | 282.7 | 0.0 | 0.0 |
| 20 | 457.20 | -20.00 | 0.00 | 124.718 | 39.067 | 0.017 | 281.8 | 282.6 | 0.0 | 0.0 |
| 21 | 457.20 | -15.00 | 0.00 | 124.644 | 48.263 | 0.017 | 281.9 | 282.7 | 0.0 | 0.0 |
| 22 | 457.20 | -10.00 | 0.00 | 124.557 | 57.077 | 0.020 | 281.9 | 282.7 | 0.0 | 0.0 |
| 23 | 457.20 | -5.00 | 0.00 | 124.421 | 64.617 | 0.019 | 282.1 | 282.7 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | 0.00 | 124.409 | 65.646 | 0.015 | 282.2 | 282.7 | 0.0 | 0.0 |
| 25 | 457.20 | 5.00 | 0.00 | 124.482 | 60.969 | 0.013 | 282.2 | 282.7 | 0.0 | 0.0 |
| 26 | 457.20 | 10.00 | 0.00 | 124.452 | 52.680 | 0.014 | 282.0 | 282.7 | 99.6 | 88.1 |
| 27 | 457.20 | 15.00 | 0.00 | 124.347 | 40.735 | 0.012 | 281.9 | 282.6 | 0.0 | 0.0 |
| 28 | 457.20 | 20.00 | 0.00 | 124.382 | 31.750 | 0.016 | 282.0 | 282.6 | 0.0 | 0.0 |
| 29 | 457.20 | 25.00 | 0.00 | 124.121 | 24.272 | 0.018 | 281.8 | 282.7 | 0.0 | 0.0 |
| 30 | 457.20 | 30.00 | 0.00 | 124.135 | 17.869 | 0.019 | 281.8 | 282.6 | 0.0 | 0.0 |
| 31 | 457.20 | 35.00 | 0.00 | 124.088 | 12.811 | 0.018 | 281.8 | 282.7 | 0.0 | 0.0 |
| 32 | 457.20 | 40.00 | 0.00 | 123.562 | 8.808 | 0.020 | 282.1 | 282.7 | 0.0 | 0.0 |
| 33 | 457.20 | 45.00 | 0.00 | 123.586 | 6.844 | 0.020 | 282.2 | 282.7 | 0.0 | 0.0 |
| 34 | 457.20 | 50.00 | 0.00 | 123.566 | 4.243 | 0.025 | 282.3 | 282.7 | 0.0 | 0.0 |
| 35 | 457.20 | 55.00 | 0.00 | 123.551 | 3.211 | 0.020 | 282.3 | 282.8 | 0.0 | 0.0 |
| 36 | 457.20 | 60.00 | 0.00 | 123.533 | 1.800 | 0.023 | 282.2 | 282.8 | 0.0 | 0.0 |
| 37 | 457.20 | 65.00 | 0.00 | 124.844 | 1.152 | 0.024 | 282.2 | 282.7 | 0.0 | 0.0 |
| 38 | 457.20 | 70.00 | 0.00 | 124.677 | 0.654 | 0.029 | 282.2 | 282.7 | 0.0 | 0.0 |
| 39 | 457.20 | 75.00 | 0.00 | 124.603 | 0.322 | 0.026 | 282.3 | 282.8 | 0.0 | 0.0 |
| 40 | 457.20 | 80.00 | 0.00 | 124.686 | 0.145 | 0.021 | 282.4 | 282.8 | 0.0 | 0.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.627 | 0.025 | 0.023 | 282.5 | 282.7 | 0.0 | 0.0 |
| 42 | 457.20 | 90.00 | 0.00 | 124.660 | 0.010 | 0.024 | 282.6 | 282.8 | 0.0 | 0.0 |
| 43 | 457.20 | 95.00 | 0.00 | 124.740 | 0.009 | 0.026 | 282.7 | 282.8 | 0.0 | 0.0 |
| 44 | 457.20 | 100.00 | 0.00 | 124.847 | 0.010 | 0.030 | 282.8 | 282.8 | 0.0 | 0.0 |
| 45 | 457.20 | 105.00 | 0.00 | 124.965 | 0.010 | 0.030 | 282.6 | 282.8 | 0.0 | 0.0 |
| 46 | 457.20 | 110.00 | 0.00 | 124.966 | 0.011 | 0.025 | 282.8 | 282.8 | 0.0 | 0.0 |

File : TAB199T 18-DEC-88
1-DEC-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config II(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.646 kPa

Mean gauged plenum pressure : 124.728 kPa
RMS gauged plenum pressure : 0.511 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 123.967 | 0.103 | 0.011 | 279.3 | 282.3 | 276.2 | 276.1 |
| 3 | 457.20 | 0.00 | -97.00 | 123.904 | 0.195 | 0.012 | 279.5 | 282.3 | 305.3 | 305.1 |
| 4 | 457.20 | 0.00 | -94.00 | 123.776 | 0.299 | 0.012 | 279.4 | 282.3 | 277.4 | 277.2 |
| 5 | 457.20 | 0.00 | -91.00 | 125.353 | 0.523 | 0.012 | 279.4 | 282.4 | 322.8 | 322.3 |
| 6 | 457.20 | 0.00 | -88.00 | 125.367 | 0.767 | 0.012 | 279.4 | 282.4 | 343.8 | 343.0 |
| 7 | 457.20 | 0.00 | -85.00 | 125.382 | 1.260 | 0.012 | 279.3 | 282.4 | 301.6 | 300.5 |
| 8 | 457.20 | 0.00 | -82.00 | 125.377 | 1.746 | 0.011 | 279.4 | 282.4 | 347.9 | 346.2 |
| 9 | 457.20 | 0.00 | -79.00 | 125.528 | 2.345 | 0.011 | 279.4 | 282.4 | 332.2 | 330.0 |
| 10 | 457.20 | 0.00 | -76.00 | 125.494 | 3.127 | 0.011 | 279.5 | 282.4 | 334.4 | 331.4 |
| 11 | 457.20 | 0.00 | -73.00 | 125.456 | 3.837 | 0.011 | 279.5 | 282.4 | 309.8 | 306.4 |
| 12 | 457.20 | 0.00 | -70.00 | 125.391 | 5.192 | 0.011 | 279.6 | 282.4 | 318.0 | 313.4 |
| 13 | 457.20 | 0.00 | -67.00 | 125.075 | 5.960 | 0.011 | 279.8 | 282.5 | 333.9 | 328.4 |
| 14 | 457.20 | 0.00 | -64.00 | 125.098 | 7.090 | 0.011 | 279.7 | 282.5 | 329.5 | 323.0 |
| 15 | 457.20 | 0.00 | -61.00 | 125.215 | 8.574 | 0.011 | 279.7 | 282.5 | 290.4 | 283.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 125.228 | 10.344 | 0.010 | 279.7 | 282.4 | 298.9 | 290.5 |
| 17 | 457.20 | 0.00 | -55.00 | 124.767 | 10.700 | 0.010 | 279.7 | 282.5 | 0.0 | 0.0 |
| 18 | 457.20 | 0.00 | -52.00 | 124.404 | 12.526 | 0.010 | 279.7 | 282.5 | 100.7 | 97.3 |
| 19 | 457.20 | 0.00 | -49.00 | 124.350 | 14.848 | 0.011 | 279.9 | 282.5 | 297.8 | 286.1 |
| 20 | 457.20 | 0.00 | -46.00 | 124.460 | 16.988 | 0.010 | 279.9 | 282.5 | 0.0 | 0.0 |
| 21 | 457.20 | 0.00 | -43.00 | 124.521 | 19.256 | 0.010 | 280.1 | 282.5 | 0.0 | 0.0 |
| 22 | 457.20 | 0.00 | -40.00 | 124.524 | 21.571 | 0.011 | 280.1 | 282.5 | 0.0 | 0.0 |
| 23 | 457.20 | 0.00 | -37.00 | 124.543 | 24.558 | 0.011 | 280.2 | 282.5 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | -34.00 | 124.629 | 27.405 | 0.011 | 280.1 | 282.5 | 0.0 | 0.0 |
| 25 | 457.20 | 0.00 | -31.00 | 124.478 | 30.956 | 0.012 | 280.2 | 282.5 | 97.4 | 90.1 |
| 26 | 457.20 | 0.00 | -28.00 | 123.655 | 33.216 | 0.012 | 280.2 | 282.5 | 96.4 | 88.7 |
| 27 | 457.20 | 0.00 | -25.00 | 125.198 | 37.424 | 0.012 | 280.0 | 282.5 | 0.0 | 0.0 |
| 28 | 457.20 | 0.00 | -22.00 | 124.985 | 41.775 | 0.013 | 279.9 | 282.5 | 0.0 | 0.0 |
| 29 | 457.20 | 0.00 | -19.00 | 124.743 | 46.473 | 0.012 | 280.1 | 282.5 | 87.3 | 78.2 |
| 30 | 457.20 | 0.00 | -16.00 | 124.408 | 50.296 | 0.013 | 280.3 | 282.5 | 0.0 | 0.0 |
| 31 | 457.20 | 0.00 | -13.00 | 124.428 | 54.384 | 0.021 | 280.4 | 282.5 | 111.6 | 98.4 |
| 32 | 457.20 | 0.00 | -10.00 | 124.469 | 58.695 | 0.024 | 280.5 | 282.5 | 106.9 | 93.5 |
| 33 | 457.20 | 0.00 | -7.00 | 124.533 | 62.804 | 0.020 | 280.4 | 282.5 | 0.0 | 0.0 |
| 34 | 457.20 | 0.00 | -4.00 | 124.138 | 64.257 | 0.020 | 280.5 | 282.5 | 0.0 | 0.0 |
| 35 | 457.20 | 0.00 | -1.00 | 125.283 | 62.875 | 0.019 | 280.7 | 282.5 | 107.0 | 92.9 |
| 36 | 457.20 | 0.00 | 2.00 | 125.331 | 62.532 | 0.023 | 280.6 | 282.5 | 0.0 | 0.0 |
| 37 | 457.20 | 0.00 | 5.00 | 124.436 | 63.926 | 0.017 | 280.6 | 282.5 | 0.0 | 0.0 |
| 38 | 457.20 | 0.00 | 8.00 | 124.384 | 61.356 | 0.021 | 280.7 | 282.5 | 0.0 | 0.0 |
| 39 | 457.20 | 0.00 | 11.00 | 124.450 | 57.665 | 0.021 | 280.8 | 282.5 | 190.5 | 166.9 |
| 40 | 457.20 | 0.00 | 14.00 | 124.479 | 53.667 | 0.017 | 280.8 | 282.5 | 0.0 | 0.0 |
| 41 | 457.20 | 0.00 | 17.00 | 124.438 | 48.571 | 0.022 | 280.7 | 282.5 | 86.4 | 77.0 |
| 42 | 457.20 | 0.00 | 20.00 | 124.300 | 44.445 | 0.017 | 280.8 | 282.5 | 285.1 | 256.3 |

File : TAB219T 7-DEC-88
7-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config II(b), -14 deg.

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.070 kPa

Mean gauged plenum pressure : 124.891 kPa
RMS gauged plenum pressure : 0.560 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 123.840 | 0.066 | 0.012 | 291.1 | 282.9 | 290.0 | 289.9 |
| 3 | 457.20 | -105.00 | 0.00 | 123.792 | 0.022 | 0.014 | 291.0 | 282.8 | 290.0 | 290.0 |
| 4 | 457.20 | -100.00 | 0.00 | 124.503 | 0.013 | 0.015 | 290.8 | 282.8 | 289.7 | 289.7 |
| 5 | 457.20 | -95.00 | 0.00 | 124.706 | 0.029 | 0.016 | 290.6 | 282.8 | 289.3 | 289.3 |
| 6 | 457.20 | -90.00 | 0.00 | 124.646 | 0.016 | 0.017 | 290.3 | 282.7 | 289.0 | 289.0 |
| 7 | 457.20 | -85.00 | 0.00 | 124.583 | 0.083 | 0.017 | 290.2 | 282.7 | 288.5 | 288.4 |
| 8 | 457.20 | -80.00 | 0.00 | 124.538 | 0.262 | 0.021 | 290.1 | 282.7 | 287.9 | 287.7 |
| 9 | 457.20 | -75.00 | 0.00 | 124.587 | 0.630 | 0.017 | 290.0 | 282.7 | 287.8 | 287.3 |
| 10 | 457.20 | -70.00 | 0.00 | 124.585 | 1.272 | 0.018 | 290.0 | 282.7 | 287.2 | 286.1 |
| 11 | 457.20 | -65.00 | 0.00 | 124.542 | 2.246 | 0.019 | 289.9 | 282.7 | 287.0 | 285.1 |
| 12 | 457.20 | -60.00 | 0.00 | 124.570 | 3.060 | 0.026 | 289.8 | 282.7 | 286.4 | 283.9 |
| 13 | 457.20 | -55.00 | 0.00 | 124.569 | 5.000 | 0.023 | 289.8 | 282.6 | 286.0 | 282.0 |
| 14 | 457.20 | -50.00 | 0.00 | 124.544 | 6.847 | 0.025 | 289.8 | 282.6 | 285.4 | 279.9 |
| 15 | 457.20 | -45.00 | 0.00 | 124.578 | 9.792 | 0.027 | 289.9 | 282.6 | 284.7 | 277.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.624 | 13.408 | 0.029 | 290.1 | 282.6 | 284.0 | 273.8 |
| 17 | 457.20 | -35.00 | 0.00 | 124.656 | 17.008 | 0.028 | 290.5 | 282.6 | 283.1 | 270.4 |
| 18 | 457.20 | -30.00 | 0.00 | 125.342 | 23.680 | 0.038 | 290.1 | 282.6 | 282.4 | 265.4 |
| 19 | 457.20 | -25.00 | 0.00 | 125.327 | 29.752 | 0.030 | 290.1 | 282.6 | 282.0 | 261.4 |
| 20 | 457.20 | -20.00 | 0.00 | 125.366 | 37.352 | 0.033 | 289.9 | 282.6 | 281.6 | 256.7 |
| 21 | 457.20 | -15.00 | 0.00 | 125.357 | 45.470 | 0.036 | 289.8 | 282.7 | 281.7 | 252.6 |
| 22 | 457.20 | -10.00 | 0.00 | 125.361 | 53.624 | 0.033 | 289.9 | 282.6 | 282.0 | 248.9 |
| 23 | 457.20 | -5.00 | 0.00 | 125.354 | 59.592 | 0.032 | 290.1 | 282.7 | 282.7 | 246.7 |
| 24 | 457.20 | 0.00 | 0.00 | 125.842 | 60.834 | 0.040 | 290.3 | 282.7 | 282.7 | 246.2 |
| 25 | 457.20 | 5.00 | 0.00 | 125.206 | 56.169 | 0.033 | 290.4 | 282.7 | 282.3 | 248.0 |
| 26 | 457.20 | 10.00 | 0.00 | 125.241 | 47.641 | 0.038 | 290.6 | 282.7 | 281.9 | 251.7 |
| 27 | 457.20 | 15.00 | 0.00 | 125.348 | 37.699 | 0.039 | 290.6 | 282.7 | 281.5 | 256.5 |
| 28 | 457.20 | 20.00 | 0.00 | 125.366 | 28.431 | 0.036 | 290.8 | 282.7 | 281.9 | 262.1 |
| 29 | 457.20 | 25.00 | 0.00 | 125.428 | 21.933 | 0.037 | 291.0 | 282.8 | 282.3 | 266.4 |
| 30 | 457.20 | 30.00 | 0.00 | 125.459 | 15.035 | 0.038 | 291.1 | 282.8 | 283.2 | 271.9 |
| 31 | 457.20 | 35.00 | 0.00 | 125.567 | 10.766 | 0.042 | 291.0 | 282.8 | 283.9 | 275.6 |
| 32 | 457.20 | 40.00 | 0.00 | 125.574 | 7.426 | 0.035 | 290.9 | 282.8 | 284.8 | 278.9 |
| 33 | 457.20 | 45.00 | 0.00 | 125.620 | 5.260 | 0.036 | 290.9 | 282.8 | 285.7 | 281.5 |
| 34 | 457.20 | 50.00 | 0.00 | 125.603 | 3.528 | 0.040 | 291.0 | 282.8 | 286.1 | 283.2 |
| 35 | 457.20 | 55.00 | 0.00 | 125.632 | 2.123 | 0.034 | 291.0 | 282.8 | 287.1 | 285.3 |
| 36 | 457.20 | 60.00 | 0.00 | 125.597 | 1.176 | 0.033 | 291.1 | 282.8 | 287.7 | 286.7 |
| 37 | 457.20 | 65.00 | 0.00 | 125.625 | 0.722 | 0.027 | 291.1 | 282.8 | 288.0 | 287.4 |
| 38 | 457.20 | 70.00 | 0.00 | 125.548 | 0.409 | 0.027 | 291.2 | 282.8 | 288.3 | 288.0 |
| 39 | 457.20 | 75.00 | 0.00 | 124.315 | 0.155 | 0.028 | 291.1 | 282.7 | 288.9 | 288.8 |
| 40 | 457.20 | 80.00 | 0.00 | 124.308 | 0.037 | 0.023 | 291.4 | 282.7 | 289.6 | 289.6 |
| 41 | 457.20 | 85.00 | 0.00 | 124.283 | 0.010 | 0.023 | 291.5 | 282.7 | 289.9 | 289.9 |
| 42 | 457.20 | 90.00 | 0.00 | 124.323 | 0.010 | 0.027 | 291.4 | 282.7 | 290.0 | 290.0 |
| 43 | 457.20 | 95.00 | 0.00 | 124.337 | 0.010 | 0.022 | 291.4 | 282.7 | 290.1 | 290.1 |
| 44 | 457.20 | 100.00 | 0.00 | 124.344 | 0.009 | 0.021 | 291.3 | 282.7 | 290.4 | 290.4 |
| 45 | 457.20 | 105.00 | 0.00 | 124.376 | 0.010 | 0.021 | 291.3 | 282.8 | 290.1 | 290.1 |
| 46 | 457.20 | 110.00 | 0.00 | 124.395 | 0.009 | 0.020 | 291.1 | 282.7 | 290.3 | 290.3 |

File : TAB231T 16-DEC-88
16-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config II(b), +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.544 kPa

Mean gauged plenum pressure : 124.894 kPa
RMS gauged plenum pressure : 0.967 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 126.078 | 0.183 | 0.040 | 274.8 | 282.6 | 275.2 | 275.1 |
| 3 | 457.20 | -105.00 | 0.00 | 126.235 | 0.150 | 0.040 | 274.7 | 282.7 | 275.2 | 275.1 |
| 4 | 457.20 | -100.00 | 0.00 | 126.009 | 0.121 | 0.040 | 274.7 | 282.8 | 275.1 | 275.0 |
| 5 | 457.20 | -95.00 | 0.00 | 124.556 | 0.113 | 0.036 | 274.7 | 282.8 | 275.0 | 274.9 |
| 6 | 457.20 | -90.00 | 0.00 | 125.048 | 0.165 | 0.047 | 274.7 | 282.8 | 274.9 | 274.8 |
| 7 | 457.20 | -85.00 | 0.00 | 125.384 | 0.271 | 0.054 | 274.7 | 282.9 | 275.0 | 274.8 |
| 8 | 457.20 | -80.00 | 0.00 | 125.654 | 0.419 | 0.058 | 274.6 | 282.9 | 274.9 | 274.6 |
| 9 | 457.20 | -75.00 | 0.00 | 125.809 | 0.626 | 0.071 | 274.7 | 283.0 | 274.8 | 274.3 |
| 10 | 457.20 | -70.00 | 0.00 | 125.946 | 1.008 | 0.076 | 274.7 | 283.0 | 274.8 | 274.0 |
| 11 | 457.20 | -65.00 | 0.00 | 126.072 | 1.900 | 0.081 | 274.7 | 283.0 | 274.8 | 273.3 |
| 12 | 457.20 | -60.00 | 0.00 | 126.290 | 2.744 | 0.084 | 274.6 | 283.0 | 274.8 | 272.6 |
| 13 | 457.20 | -55.00 | 0.00 | 126.397 | 4.352 | 0.078 | 274.6 | 283.1 | 274.9 | 271.5 |
| 14 | 457.20 | -50.00 | 0.00 | 125.908 | 6.104 | 0.075 | 274.6 | 283.1 | 274.9 | 270.2 |
| 15 | 457.20 | -45.00 | 0.00 | 124.054 | 8.098 | 0.075 | 274.7 | 283.1 | 274.9 | 268.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.338 | 11.479 | 0.075 | 274.6 | 283.1 | 274.8 | 266.3 |
| 17 | 457.20 | -35.00 | 0.00 | 124.517 | 15.196 | 0.074 | 274.6 | 283.1 | 274.8 | 263.7 |
| 18 | 457.20 | -30.00 | 0.00 | 124.555 | 20.189 | 0.085 | 274.6 | 283.1 | 274.8 | 260.5 |
| 19 | 457.20 | -25.00 | 0.00 | 124.563 | 26.778 | 0.076 | 274.6 | 283.1 | 274.8 | 256.5 |
| 20 | 457.20 | -20.00 | 0.00 | 124.458 | 34.316 | 0.080 | 274.7 | 283.2 | 274.8 | 252.3 |
| 21 | 457.20 | -15.00 | 0.00 | 124.585 | 43.032 | 0.077 | 274.6 | 283.1 | 274.8 | 247.7 |
| 22 | 457.20 | -10.00 | 0.00 | 128.034 | 51.691 | 0.080 | 274.7 | 283.2 | 274.8 | 243.5 |
| 23 | 457.20 | -5.00 | 0.00 | 124.936 | 59.214 | 0.076 | 274.6 | 283.2 | 274.7 | 240.0 |
| 24 | 457.20 | 0.00 | 0.00 | 124.550 | 64.319 | 0.079 | 274.5 | 283.4 | 274.7 | 237.9 |
| 25 | 457.20 | 5.00 | 0.00 | 125.618 | 62.259 | 0.075 | 274.6 | 283.6 | 274.9 | 238.9 |
| 26 | 457.20 | 10.00 | 0.00 | 125.067 | 57.062 | 0.074 | 274.6 | 283.5 | 274.8 | 241.1 |
| 27 | 457.20 | 15.00 | 0.00 | 124.664 | 48.727 | 0.076 | 274.5 | 283.5 | 274.7 | 244.8 |
| 28 | 457.20 | 20.00 | 0.00 | 124.999 | 39.469 | 0.072 | 274.5 | 283.4 | 274.7 | 249.4 |
| 29 | 457.20 | 25.00 | 0.00 | 124.932 | 31.657 | 0.067 | 274.7 | 283.1 | 274.7 | 253.6 |
| 30 | 457.20 | 30.00 | 0.00 | 124.633 | 24.227 | 0.063 | 274.7 | 283.0 | 274.7 | 257.9 |
| 31 | 457.20 | 35.00 | 0.00 | 124.587 | 18.219 | 0.058 | 274.8 | 282.7 | 274.8 | 261.8 |
| 32 | 457.20 | 40.00 | 0.00 | 124.365 | 13.591 | 0.056 | 274.8 | 282.5 | 274.8 | 264.8 |
| 33 | 457.20 | 45.00 | 0.00 | 124.312 | 10.144 | 0.055 | 274.8 | 282.2 | 274.8 | 267.2 |
| 34 | 457.20 | 50.00 | 0.00 | 124.756 | 7.354 | 0.050 | 274.6 | 282.1 | 274.8 | 269.2 |
| 35 | 457.20 | 55.00 | 0.00 | 124.924 | 5.094 | 0.047 | 274.7 | 281.9 | 274.8 | 270.9 |
| 36 | 457.20 | 60.00 | 0.00 | 124.567 | 3.493 | 0.044 | 274.7 | 281.8 | 274.8 | 272.1 |
| 37 | 457.20 | 65.00 | 0.00 | 124.136 | 2.120 | 0.043 | 274.7 | 281.6 | 274.8 | 273.1 |
| 38 | 457.20 | 70.00 | 0.00 | 124.135 | 1.145 | 0.038 | 274.8 | 281.5 | 274.8 | 273.9 |
| 39 | 457.20 | 75.00 | 0.00 | 123.980 | 0.704 | 0.039 | 274.7 | 281.3 | 274.7 | 274.1 |
| 40 | 457.20 | 80.00 | 0.00 | 124.251 | 0.368 | 0.039 | 274.7 | 281.2 | 274.7 | 274.4 |
| 41 | 457.20 | 85.00 | 0.00 | 124.103 | 0.117 | 0.037 | 274.7 | 281.1 | 274.7 | 274.6 |
| 42 | 457.20 | 90.00 | 0.00 | 123.988 | 0.067 | 0.031 | 274.7 | 281.1 | 274.7 | 274.6 |
| 43 | 457.20 | 95.00 | 0.00 | 123.834 | 0.013 | 0.024 | 274.6 | 281.0 | 274.7 | 274.7 |
| 44 | 457.20 | 100.00 | 0.00 | 123.751 | 0.010 | 0.022 | 274.6 | 281.0 | 274.7 | 274.7 |
| 45 | 457.20 | 105.00 | 0.00 | 123.658 | 0.010 | 0.021 | 274.7 | 280.9 | 274.7 | 274.7 |
| 46 | 457.20 | 110.00 | 0.00 | 123.568 | 0.009 | 0.019 | 274.6 | 280.8 | 274.7 | 274.7 |

File : TAB193T 17-DEC-88
30-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config IV(a)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.375 kPa

Mean gauged plenum pressure : 124.703 kPa
RMS gauged plenum pressure : 0.358 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.408 | 0.047 | 0.012 | 281.2 | 283.1 | 280.7 | 280.7 |
| 3 | 457.20 | -105.00 | 0.00 | 124.118 | 0.014 | 0.012 | 281.2 | 283.1 | 281.2 | 281.2 |
| 4 | 457.20 | -100.00 | 0.00 | 124.041 | 0.013 | 0.012 | 281.2 | 283.1 | 280.7 | 280.7 |
| 5 | 457.20 | -95.00 | 0.00 | 124.792 | 0.011 | 0.012 | 281.2 | 283.1 | 281.3 | 281.3 |
| 6 | 457.20 | -90.00 | 0.00 | 124.793 | 0.011 | 0.012 | 281.2 | 283.1 | 281.8 | 281.8 |
| 7 | 457.20 | -85.00 | 0.00 | 124.884 | 0.010 | 0.012 | 281.2 | 283.1 | 281.9 | 281.9 |
| 8 | 457.20 | -80.00 | 0.00 | 124.873 | 0.008 | 0.012 | 281.3 | 283.1 | 281.9 | 281.9 |
| 9 | 457.20 | -75.00 | 0.00 | 124.920 | 0.009 | 0.012 | 281.2 | 283.1 | 281.7 | 281.7 |
| 10 | 457.20 | -70.00 | 0.00 | 125.078 | 0.010 | 0.012 | 281.2 | 283.1 | 281.7 | 281.7 |
| 11 | 457.20 | -65.00 | 0.00 | 125.029 | 0.014 | 0.012 | 281.2 | 283.1 | 281.2 | 281.2 |
| 12 | 457.20 | -60.00 | 0.00 | 124.904 | 0.134 | 0.012 | 281.2 | 283.1 | 281.5 | 281.4 |
| 13 | 457.20 | -55.00 | 0.00 | 124.855 | 0.338 | 0.012 | 281.2 | 283.1 | 281.3 | 281.0 |
| 14 | 457.20 | -50.00 | 0.00 | 124.805 | 0.613 | 0.012 | 281.2 | 283.1 | 281.4 | 280.9 |
| 15 | 457.20 | -45.00 | 0.00 | 124.904 | 1.281 | 0.012 | 281.2 | 283.0 | 283.1 | 282.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.924 | 2.193 | 0.012 | 281.2 | 283.1 | 283.2 | 281.4 |
| 17 | 457.20 | -35.00 | 0.00 | 124.949 | 2.879 | 0.012 | 281.2 | 283.1 | 310.1 | 307.6 |
| 18 | 457.20 | -30.00 | 0.00 | 125.076 | 4.164 | 0.012 | 281.3 | 283.1 | 321.5 | 317.7 |
| 19 | 457.20 | -25.00 | 0.00 | 125.164 | 5.758 | 0.013 | 281.3 | 283.1 | 310.1 | 305.1 |
| 20 | 457.20 | -20.00 | 0.00 | 125.237 | 7.936 | 0.012 | 281.3 | 283.1 | 119.5 | 116.9 |
| 21 | 457.20 | -15.00 | 0.00 | 125.101 | 10.473 | 0.012 | 281.3 | 283.1 | 299.1 | 290.6 |
| 22 | 457.20 | -10.00 | 0.00 | 125.036 | 14.131 | 0.012 | 281.3 | 283.1 | 183.4 | 176.5 |
| 23 | 457.20 | -5.00 | 0.00 | 125.059 | 19.188 | 0.012 | 281.3 | 283.1 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | 0.00 | 125.009 | 26.848 | 0.012 | 281.3 | 283.1 | 0.0 | 0.0 |
| 25 | 457.20 | 5.00 | 0.00 | 125.031 | 37.425 | 0.012 | 281.3 | 283.1 | 0.0 | 0.0 |
| 26 | 457.20 | 10.00 | 0.00 | 125.135 | 50.816 | 0.012 | 281.3 | 283.1 | 97.3 | 86.3 |
| 27 | 457.20 | 15.00 | 0.00 | 124.240 | 65.042 | 0.012 | 281.3 | 283.1 | 0.0 | 0.0 |
| 28 | 457.20 | 20.00 | 0.00 | 124.036 | 75.136 | 0.012 | 281.3 | 283.1 | 100.5 | 85.4 |
| 29 | 457.20 | 25.00 | 0.00 | 123.887 | 74.618 | 0.012 | 281.3 | 283.1 | 0.0 | 0.0 |
| 30 | 457.20 | 30.00 | 0.00 | 123.675 | 64.202 | 0.013 | 281.3 | 283.1 | 96.1 | 83.2 |
| 31 | 457.20 | 35.00 | 0.00 | 124.265 | 50.610 | 0.012 | 281.3 | 283.1 | 0.0 | 0.0 |
| 32 | 457.20 | 40.00 | 0.00 | 124.307 | 37.526 | 0.012 | 281.4 | 283.1 | 0.0 | 0.0 |
| 33 | 457.20 | 45.00 | 0.00 | 124.490 | 28.665 | 0.012 | 281.5 | 283.2 | 0.0 | 0.0 |
| 34 | 457.20 | 50.00 | 0.00 | 124.540 | 21.247 | 0.013 | 281.4 | 283.2 | 0.0 | 0.0 |
| 35 | 457.20 | 55.00 | 0.00 | 124.608 | 15.974 | 0.012 | 281.4 | 283.2 | 339.5 | 325.2 |
| 36 | 457.20 | 60.00 | 0.00 | 124.584 | 12.092 | 0.012 | 281.4 | 283.1 | 0.0 | 0.0 |
| 37 | 457.20 | 65.00 | 0.00 | 124.534 | 9.157 | 0.012 | 281.4 | 283.1 | 0.0 | 0.0 |
| 38 | 457.20 | 70.00 | 0.00 | 124.635 | 6.850 | 0.013 | 281.4 | 283.1 | 0.0 | 0.0 |
| 39 | 457.20 | 75.00 | 0.00 | 124.648 | 5.313 | 0.012 | 281.4 | 283.1 | 0.0 | 0.0 |
| 40 | 457.20 | 80.00 | 0.00 | 124.754 | 3.656 | 0.013 | 281.4 | 283.2 | 0.0 | 0.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.755 | 2.636 | 0.013 | 281.5 | 283.1 | 0.0 | 0.0 |
| 42 | 457.20 | 90.00 | 0.00 | 124.831 | 1.851 | 0.016 | 281.5 | 283.1 | 0.0 | 0.0 |
| 43 | 457.20 | 95.00 | 0.00 | 124.879 | 1.334 | 0.012 | 281.5 | 283.1 | 0.0 | 0.0 |
| 44 | 457.20 | 100.00 | 0.00 | 124.775 | 0.891 | 0.014 | 281.5 | 283.1 | 0.0 | 0.0 |
| 45 | 457.20 | 105.00 | 0.00 | 124.692 | 0.513 | 0.016 | 281.5 | 283.2 | 0.0 | 0.0 |
| 46 | 457.20 | 110.00 | 0.00 | 124.790 | 0.287 | 0.016 | 281.5 | 283.1 | 0.0 | 0.0 |

File : TAB207T 19-DEC-88
1-DEC-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config IV(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 125.098 kPa
RMS gauged plenum pressure : 0.100 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 124.995 | 0.040 | 0.013 | 282.8 | 282.8 | 0.0 | 0.0 |
| 3 | 457.20 | 0.00 | -97.00 | 125.031 | 0.044 | 0.013 | 282.7 | 282.8 | 0.0 | 0.0 |
| 4 | 457.20 | 0.00 | -94.00 | 125.097 | 0.017 | 0.013 | 282.7 | 282.8 | 0.0 | 0.0 |
| 5 | 457.20 | 0.00 | -91.00 | 125.094 | 0.038 | 0.013 | 282.7 | 282.9 | 0.0 | 0.0 |
| 6 | 457.20 | 0.00 | -88.00 | 125.081 | 0.031 | 0.013 | 282.7 | 282.9 | 0.0 | 0.0 |
| 7 | 457.20 | 0.00 | -85.00 | 125.125 | 0.088 | 0.014 | 282.7 | 282.9 | 0.0 | 0.0 |
| 8 | 457.20 | 0.00 | -82.00 | 125.093 | 0.319 | 0.013 | 282.7 | 282.9 | 0.0 | 0.0 |
| 9 | 457.20 | 0.00 | -79.00 | 125.075 | 0.294 | 0.013 | 282.7 | 282.9 | 0.0 | 0.0 |
| 10 | 457.20 | 0.00 | -76.00 | 125.049 | 0.495 | 0.012 | 282.7 | 282.9 | 0.0 | 0.0 |
| 11 | 457.20 | 0.00 | -73.00 | 125.036 | 0.836 | 0.014 | 282.8 | 282.9 | 0.0 | 0.0 |
| 12 | 457.20 | 0.00 | -70.00 | 125.013 | 1.229 | 0.013 | 282.8 | 282.9 | 0.0 | 0.0 |
| 13 | 457.20 | 0.00 | -67.00 | 125.035 | 1.646 | 0.012 | 282.7 | 282.9 | 0.0 | 0.0 |
| 14 | 457.20 | 0.00 | -64.00 | 125.114 | 2.158 | 0.012 | 282.6 | 282.9 | 0.0 | 0.0 |
| 15 | 457.20 | 0.00 | -61.00 | 125.132 | 2.775 | 0.012 | 282.6 | 282.9 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 125.179 | 3.296 | 0.012 | 282.5 | 282.9 | 0.0 | 0.0 |
| 17 | 457.20 | 0.00 | -55.00 | 125.279 | 4.333 | 0.012 | 282.4 | 282.9 | 0.0 | 0.0 |
| 18 | 457.20 | 0.00 | -52.00 | 125.338 | 5.653 | 0.012 | 282.4 | 282.8 | 0.0 | 0.0 |
| 19 | 457.20 | 0.00 | -49.00 | 125.283 | 6.691 | 0.012 | 282.3 | 282.8 | 0.0 | 0.0 |
| 20 | 457.20 | 0.00 | -46.00 | 125.281 | 8.080 | 0.012 | 282.4 | 282.9 | 0.0 | 0.0 |
| 21 | 457.20 | 0.00 | -43.00 | 125.259 | 9.228 | 0.012 | 282.4 | 282.9 | 0.0 | 0.0 |
| 22 | 457.20 | 0.00 | -40.00 | 125.222 | 10.882 | 0.012 | 282.4 | 282.9 | 0.0 | 0.0 |
| 23 | 457.20 | 0.00 | -37.00 | 125.065 | 12.864 | 0.012 | 282.4 | 282.8 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | -34.00 | 124.958 | 14.098 | 0.012 | 282.4 | 282.8 | 0.0 | 0.0 |
| 25 | 457.20 | 0.00 | -31.00 | 124.935 | 16.823 | 0.012 | 282.4 | 282.8 | 0.0 | 0.0 |
| 26 | 457.20 | 0.00 | -28.00 | 124.902 | 18.064 | 0.012 | 282.4 | 282.8 | 0.0 | 0.0 |
| 27 | 457.20 | 0.00 | -25.00 | 125.008 | 19.494 | 0.012 | 282.3 | 282.8 | 0.0 | 0.0 |
| 28 | 457.20 | 0.00 | -22.00 | 124.989 | 21.289 | 0.011 | 282.3 | 282.8 | 0.0 | 0.0 |
| 29 | 457.20 | 0.00 | -19.00 | 125.004 | 23.035 | 0.012 | 282.3 | 282.8 | 0.0 | 0.0 |
| 30 | 457.20 | 0.00 | -16.00 | 125.114 | 24.036 | 0.012 | 282.3 | 282.8 | 0.0 | 0.0 |
| 31 | 457.20 | 0.00 | -13.00 | 125.185 | 25.398 | 0.012 | 282.3 | 282.8 | 0.0 | 0.0 |
| 32 | 457.20 | 0.00 | -10.00 | 125.131 | 27.136 | 0.011 | 282.3 | 282.8 | 0.0 | 0.0 |
| 33 | 457.20 | 0.00 | -7.00 | 125.129 | 28.508 | 0.012 | 282.2 | 282.8 | 0.0 | 0.0 |
| 34 | 457.20 | 0.00 | -4.00 | 125.156 | 28.616 | 0.011 | 282.1 | 282.7 | 0.0 | 0.0 |
| 35 | 457.20 | 0.00 | -1.00 | 125.106 | 29.305 | 0.012 | 282.1 | 282.8 | 0.0 | 0.0 |
| 36 | 457.20 | 0.00 | 2.00 | 125.106 | 29.959 | 0.012 | 282.1 | 282.8 | 0.0 | 0.0 |
| 37 | 457.20 | 0.00 | 5.00 | 125.150 | 29.783 | 0.012 | 282.0 | 282.7 | 0.0 | 0.0 |
| 38 | 457.20 | 0.00 | 8.00 | 125.078 | 28.286 | 0.011 | 282.0 | 282.7 | 0.0 | 0.0 |
| 39 | 457.20 | 0.00 | 11.00 | 125.156 | 28.073 | 0.012 | 282.1 | 282.7 | 0.0 | 0.0 |
| 40 | 457.20 | 0.00 | 14.00 | 125.084 | 26.391 | 0.011 | 282.0 | 282.7 | 0.0 | 0.0 |
| 41 | 457.20 | 0.00 | 17.00 | 125.021 | 26.067 | 0.011 | 282.0 | 282.8 | 0.0 | 0.0 |
| 42 | 457.20 | 0.00 | 20.00 | 124.966 | 22.876 | 0.011 | 281.9 | 282.8 | 0.0 | 0.0 |

File : TAB217T

7-DEC-88
7-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config IV(a), -14 deg.

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.307 kPa

Mean gauged plenum pressure : 124.000 kPa
RMS gauged plenum pressure : 0.697 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.706 | 0.012 | 0.012 | 282.6 | 281.8 | 281.9 | 281.9 |
| 3 | 457.20 | -105.00 | 0.00 | 124.732 | 0.010 | 0.012 | 282.6 | 281.7 | 282.1 | 282.1 |
| 4 | 457.20 | -100.00 | 0.00 | 124.767 | 0.008 | 0.013 | 282.6 | 281.7 | 282.1 | 282.1 |
| 5 | 457.20 | -95.00 | 0.00 | 124.725 | 0.008 | 0.013 | 282.7 | 281.8 | 282.1 | 282.1 |
| 6 | 457.20 | -90.00 | 0.00 | 124.732 | 0.007 | 0.013 | 282.7 | 281.8 | 282.2 | 282.2 |
| 7 | 457.20 | -85.00 | 0.00 | 124.670 | 0.006 | 0.012 | 282.7 | 281.7 | 282.3 | 282.3 |
| 8 | 457.20 | -80.00 | 0.00 | 124.638 | 0.005 | 0.013 | 282.7 | 281.7 | 282.3 | 282.3 |
| 9 | 457.20 | -75.00 | 0.00 | 124.403 | 0.005 | 0.015 | 282.7 | 281.7 | 282.1 | 282.1 |
| 10 | 457.20 | -70.00 | 0.00 | 124.386 | 0.006 | 0.013 | 282.6 | 281.7 | 282.2 | 282.2 |
| 11 | 457.20 | -65.00 | 0.00 | 124.184 | 0.009 | 0.014 | 282.6 | 281.7 | 282.1 | 282.1 |
| 12 | 457.20 | -60.00 | 0.00 | 124.230 | 0.019 | 0.016 | 282.6 | 281.7 | 281.9 | 281.9 |
| 13 | 457.20 | -55.00 | 0.00 | 124.142 | 0.139 | 0.012 | 282.5 | 281.7 | 281.9 | 281.8 |
| 14 | 457.20 | -50.00 | 0.00 | 124.193 | 0.570 | 0.013 | 282.6 | 281.7 | 281.9 | 281.4 |
| 15 | 457.20 | -45.00 | 0.00 | 124.077 | 0.859 | 0.016 | 282.6 | 281.7 | 281.8 | 281.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 123.801 | 1.492 | 0.016 | 282.7 | 281.6 | 281.7 | 280.5 |
| 17 | 457.20 | -35.00 | 0.00 | 123.756 | 2.233 | 0.014 | 282.8 | 281.7 | 281.7 | 279.9 |
| 18 | 457.20 | -30.00 | 0.00 | 123.773 | 3.346 | 0.014 | 282.8 | 281.7 | 281.5 | 278.8 |
| 19 | 457.20 | -25.00 | 0.00 | 123.657 | 5.065 | 0.018 | 282.9 | 281.7 | 281.3 | 277.3 |
| 20 | 457.20 | -20.00 | 0.00 | 123.642 | 7.118 | 0.020 | 282.9 | 281.8 | 281.0 | 275.4 |
| 21 | 457.20 | -15.00 | 0.00 | 123.635 | 10.023 | 0.016 | 283.1 | 281.8 | 280.8 | 273.1 |
| 22 | 457.20 | -10.00 | 0.00 | 123.655 | 14.106 | 0.023 | 283.2 | 281.8 | 280.4 | 269.8 |
| 23 | 457.20 | -5.00 | 0.00 | 123.680 | 19.597 | 0.022 | 283.4 | 281.8 | 280.0 | 265.8 |
| 24 | 457.20 | 0.00 | 0.00 | 123.712 | 27.175 | 0.022 | 283.4 | 281.8 | 279.5 | 260.6 |
| 25 | 457.20 | 5.00 | 0.00 | 123.735 | 38.287 | 0.026 | 283.5 | 281.8 | 279.5 | 254.4 |
| 26 | 457.20 | 10.00 | 0.00 | 123.699 | 51.559 | 0.021 | 283.6 | 281.8 | 279.8 | 248.0 |
| 27 | 457.20 | 15.00 | 0.00 | 123.574 | 66.323 | 0.024 | 283.6 | 281.8 | 280.3 | 241.8 |
| 28 | 457.20 | 20.00 | 0.00 | 123.471 | 74.140 | 0.022 | 283.6 | 281.8 | 280.6 | 238.9 |
| 29 | 457.20 | 25.00 | 0.00 | 123.252 | 71.312 | 0.023 | 283.6 | 281.8 | 280.5 | 239.9 |
| 30 | 457.20 | 30.00 | 0.00 | 122.717 | 58.722 | 0.023 | 283.8 | 281.8 | 280.0 | 244.8 |
| 31 | 457.20 | 35.00 | 0.00 | 122.550 | 44.963 | 0.028 | 283.9 | 281.7 | 279.5 | 250.9 |
| 32 | 457.20 | 40.00 | 0.00 | 122.619 | 31.396 | 0.024 | 284.1 | 281.8 | 279.6 | 258.3 |
| 33 | 457.20 | 45.00 | 0.00 | 125.113 | 22.673 | 0.019 | 284.1 | 281.8 | 279.9 | 263.7 |
| 34 | 457.20 | 50.00 | 0.00 | 125.056 | 16.003 | 0.024 | 284.1 | 281.8 | 280.3 | 268.5 |
| 35 | 457.20 | 55.00 | 0.00 | 124.916 | 11.562 | 0.023 | 284.2 | 281.8 | 281.0 | 272.2 |
| 36 | 457.20 | 60.00 | 0.00 | 124.879 | 8.209 | 0.021 | 284.2 | 281.7 | 281.4 | 275.0 |
| 37 | 457.20 | 65.00 | 0.00 | 124.894 | 5.829 | 0.024 | 284.2 | 281.8 | 281.8 | 277.2 |
| 38 | 457.20 | 70.00 | 0.00 | 124.836 | 3.900 | 0.026 | 284.3 | 281.8 | 282.3 | 279.2 |
| 39 | 457.20 | 75.00 | 0.00 | 124.570 | 3.210 | 0.028 | 284.3 | 281.8 | 282.5 | 279.9 |
| 40 | 457.20 | 80.00 | 0.00 | 124.355 | 2.389 | 0.025 | 284.5 | 281.8 | 282.7 | 280.8 |
| 41 | 457.20 | 85.00 | 0.00 | 123.764 | 1.486 | 0.020 | 284.7 | 281.8 | 283.2 | 282.0 |
| 42 | 457.20 | 90.00 | 0.00 | 123.492 | 1.328 | 0.027 | 284.7 | 281.8 | 283.3 | 282.2 |
| 43 | 457.20 | 95.00 | 0.00 | 123.445 | 0.747 | 0.033 | 284.7 | 281.8 | 283.6 | 283.0 |
| 44 | 457.20 | 100.00 | 0.00 | 123.442 | 0.569 | 0.033 | 284.8 | 281.8 | 283.7 | 283.2 |
| 45 | 457.20 | 105.00 | 0.00 | 123.335 | 0.318 | 0.029 | 284.8 | 281.8 | 283.9 | 283.6 |
| 46 | 457.20 | 110.00 | 0.00 | 123.142 | 0.161 | 0.024 | 284.8 | 281.8 | 283.9 | 283.8 |

File : TAB230T

15-DEC-88
15-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
CONFIG IV(A), +14 DEG

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 124.846 kPa
RMS gauged plenum pressure : 0.587 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 126.275 | 0.176 | 0.016 | 287.9 | 282.2 | 287.2 | 287.1 |
| 3 | 457.20 | -105.00 | 0.00 | 126.321 | 0.132 | 0.015 | 287.9 | 282.2 | 287.4 | 287.3 |
| 4 | 457.20 | -100.00 | 0.00 | 125.055 | 0.111 | 0.018 | 287.7 | 282.2 | 287.5 | 287.4 |
| 5 | 457.20 | -95.00 | 0.00 | 125.009 | 0.093 | 0.018 | 287.7 | 282.2 | 287.4 | 287.3 |
| 6 | 457.20 | -90.00 | 0.00 | 124.855 | 0.074 | 0.016 | 287.7 | 282.1 | 287.4 | 287.3 |
| 7 | 457.20 | -85.00 | 0.00 | 124.797 | 0.062 | 0.016 | 287.7 | 282.1 | 287.5 | 287.4 |
| 8 | 457.20 | -80.00 | 0.00 | 124.702 | 0.041 | 0.015 | 287.7 | 282.2 | 287.4 | 287.4 |
| 9 | 457.20 | -75.00 | 0.00 | 124.579 | 0.050 | 0.014 | 287.7 | 282.1 | 287.3 | 287.3 |
| 10 | 457.20 | -70.00 | 0.00 | 124.433 | 0.039 | 0.016 | 287.8 | 282.1 | 287.3 | 287.3 |
| 11 | 457.20 | -65.00 | 0.00 | 124.350 | 0.058 | 0.015 | 287.8 | 282.1 | 287.3 | 287.3 |
| 12 | 457.20 | -60.00 | 0.00 | 124.273 | 0.212 | 0.018 | 287.7 | 282.1 | 287.1 | 286.9 |
| 13 | 457.20 | -55.00 | 0.00 | 124.227 | 0.345 | 0.016 | 287.6 | 282.1 | 286.9 | 286.6 |
| 14 | 457.20 | -50.00 | 0.00 | 124.172 | 0.611 | 0.020 | 287.6 | 282.1 | 286.8 | 286.3 |
| 15 | 457.20 | -45.00 | 0.00 | 124.636 | 1.018 | 0.020 | 287.6 | 282.1 | 286.9 | 286.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.695 | 1.521 | 0.019 | 287.7 | 282.1 | 287.3 | 286.0 |
| 17 | 457.20 | -35.00 | 0.00 | 124.726 | 2.266 | 0.019 | 287.7 | 282.1 | 287.4 | 285.5 |
| 18 | 457.20 | -30.00 | 0.00 | 124.487 | 3.250 | 0.022 | 287.6 | 282.1 | 287.4 | 284.7 |
| 19 | 457.20 | -25.00 | 0.00 | 124.499 | 4.609 | 0.021 | 287.6 | 282.0 | 287.3 | 283.6 |
| 20 | 457.20 | -20.00 | 0.00 | 124.517 | 6.372 | 0.023 | 287.6 | 282.0 | 287.3 | 282.2 |
| 21 | 457.20 | -15.00 | 0.00 | 124.525 | 8.667 | 0.018 | 287.6 | 282.0 | 287.3 | 280.4 |
| 22 | 457.20 | -10.00 | 0.00 | 124.518 | 12.262 | 0.020 | 287.7 | 282.0 | 287.3 | 277.8 |
| 23 | 457.20 | -5.00 | 0.00 | 124.526 | 16.818 | 0.018 | 287.7 | 282.0 | 285.8 | 273.2 |
| 24 | 457.20 | 0.00 | 0.00 | 124.455 | 24.141 | 0.021 | 287.6 | 282.0 | 285.4 | 268.0 |
| 25 | 457.20 | 5.00 | 0.00 | 124.402 | 32.784 | 0.018 | 287.6 | 282.0 | 285.5 | 262.9 |
| 26 | 457.20 | 10.00 | 0.00 | 124.361 | 45.307 | 0.021 | 287.5 | 281.9 | 286.8 | 257.3 |
| 27 | 457.20 | 15.00 | 0.00 | 124.289 | 60.203 | 0.020 | 287.5 | 281.9 | 287.1 | 250.4 |
| 28 | 457.20 | 20.00 | 0.00 | 124.231 | 72.231 | 0.026 | 287.5 | 281.9 | 287.0 | 245.1 |
| 29 | 457.20 | 25.00 | 0.00 | 124.197 | 74.647 | 0.024 | 287.4 | 281.9 | 287.0 | 244.2 |
| 30 | 457.20 | 30.00 | 0.00 | 124.189 | 66.847 | 0.023 | 287.3 | 281.9 | 286.9 | 247.3 |
| 31 | 457.20 | 35.00 | 0.00 | 124.215 | 54.459 | 0.025 | 287.3 | 281.9 | 286.9 | 252.9 |
| 32 | 457.20 | 40.00 | 0.00 | 124.316 | 41.851 | 0.021 | 287.2 | 281.9 | 286.8 | 259.1 |
| 33 | 457.20 | 45.00 | 0.00 | 124.355 | 31.489 | 0.026 | 287.2 | 281.9 | 286.8 | 264.9 |
| 34 | 457.20 | 50.00 | 0.00 | 124.393 | 23.871 | 0.026 | 287.2 | 281.9 | 286.8 | 269.5 |
| 35 | 457.20 | 55.00 | 0.00 | 125.053 | 18.644 | 0.026 | 287.1 | 281.9 | 286.5 | 272.6 |
| 36 | 457.20 | 60.00 | 0.00 | 125.269 | 14.126 | 0.027 | 287.2 | 281.9 | 285.4 | 274.7 |
| 37 | 457.20 | 65.00 | 0.00 | 125.275 | 10.607 | 0.026 | 287.3 | 281.9 | 286.3 | 278.0 |
| 38 | 457.20 | 70.00 | 0.00 | 125.483 | 7.934 | 0.031 | 287.3 | 281.9 | 286.7 | 280.4 |
| 39 | 457.20 | 75.00 | 0.00 | 125.688 | 6.434 | 0.029 | 287.4 | 281.9 | 286.9 | 281.8 |
| 40 | 457.20 | 80.00 | 0.00 | 125.640 | 4.959 | 0.025 | 287.5 | 281.9 | 287.0 | 283.0 |
| 41 | 457.20 | 85.00 | 0.00 | 125.514 | 3.477 | 0.028 | 287.5 | 281.9 | 287.0 | 284.2 |
| 42 | 457.20 | 90.00 | 0.00 | 125.454 | 2.439 | 0.030 | 287.8 | 282.0 | 287.2 | 285.2 |
| 43 | 457.20 | 95.00 | 0.00 | 125.410 | 1.621 | 0.028 | 288.0 | 282.0 | 287.3 | 286.0 |
| 44 | 457.20 | 100.00 | 0.00 | 125.400 | 1.177 | 0.028 | 288.1 | 282.0 | 287.4 | 286.4 |
| 45 | 457.20 | 105.00 | 0.00 | 125.322 | 0.611 | 0.026 | 288.2 | 281.9 | 287.3 | 286.8 |
| 46 | 457.20 | 110.00 | 0.00 | 125.267 | 0.274 | 0.022 | 288.8 | 282.0 | 287.4 | 287.2 |

File : TAB202T

19-DEC-88
1-DEC-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config IV(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.442 kPa

Mean gauged plenum pressure : 124.870 kPa
RMS gauged plenum pressure : 0.447 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.125 | 0.108 | 0.014 | 285.2 | 282.8 | 0.0 | 0.0 |
| 3 | 457.20 | -105.00 | 0.00 | 125.149 | 0.045 | 0.015 | 285.0 | 282.9 | 0.0 | 0.0 |
| 4 | 457.20 | -100.00 | 0.00 | 125.018 | 0.016 | 0.014 | 284.8 | 282.9 | 0.0 | 0.0 |
| 5 | 457.20 | -95.00 | 0.00 | 124.942 | 0.018 | 0.013 | 284.8 | 282.9 | 0.0 | 0.0 |
| 6 | 457.20 | -90.00 | 0.00 | 124.861 | 0.029 | 0.014 | 284.7 | 283.0 | 0.0 | 0.0 |
| 7 | 457.20 | -85.00 | 0.00 | 124.885 | 0.074 | 0.014 | 284.9 | 283.1 | 0.0 | 0.0 |
| 8 | 457.20 | -80.00 | 0.00 | 125.065 | 0.294 | 0.020 | 284.9 | 283.1 | 0.0 | 0.0 |
| 9 | 457.20 | -75.00 | 0.00 | 125.345 | 0.466 | 0.019 | 284.8 | 283.1 | 0.0 | 0.0 |
| 10 | 457.20 | -70.00 | 0.00 | 125.432 | 0.891 | 0.026 | 284.9 | 283.1 | 0.0 | 0.0 |
| 11 | 457.20 | -65.00 | 0.00 | 125.450 | 1.609 | 0.021 | 285.1 | 283.2 | 0.0 | 0.0 |
| 12 | 457.20 | -60.00 | 0.00 | 126.098 | 2.708 | 0.022 | 285.3 | 283.2 | 0.0 | 0.0 |
| 13 | 457.20 | -55.00 | 0.00 | 125.045 | 3.847 | 0.022 | 285.5 | 283.2 | 0.0 | 0.0 |
| 14 | 457.20 | -50.00 | 0.00 | 125.059 | 5.315 | 0.027 | 285.6 | 283.2 | 0.0 | 0.0 |
| 15 | 457.20 | -45.00 | 0.00 | 125.083 | 7.503 | 0.025 | 285.7 | 283.3 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.996 | 10.232 | 0.026 | 285.9 | 283.3 | 0.0 | 0.0 |
| 17 | 457.20 | -35.00 | 0.00 | 125.010 | 13.913 | 0.026 | 285.7 | 283.3 | 0.0 | 0.0 |
| 18 | 457.20 | -30.00 | 0.00 | 125.087 | 17.470 | 0.029 | 285.7 | 283.3 | 0.0 | 0.0 |
| 19 | 457.20 | -25.00 | 0.00 | 125.054 | 22.257 | 0.023 | 285.9 | 283.3 | 0.0 | 0.0 |
| 20 | 457.20 | -20.00 | 0.00 | 124.381 | 27.158 | 0.023 | 285.8 | 283.3 | 0.0 | 0.0 |
| 21 | 457.20 | -15.00 | 0.00 | 124.470 | 33.521 | 0.024 | 285.8 | 283.4 | 0.0 | 0.0 |
| 22 | 457.20 | -10.00 | 0.00 | 124.441 | 41.017 | 0.020 | 285.9 | 283.3 | 0.0 | 0.0 |
| 23 | 457.20 | -5.00 | 0.00 | 124.426 | 48.190 | 0.019 | 286.0 | 283.4 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | 0.00 | 124.334 | 53.628 | 0.025 | 286.2 | 283.3 | 0.0 | 0.0 |
| 25 | 457.20 | 5.00 | 0.00 | 123.890 | 57.110 | 0.019 | 286.1 | 283.3 | 0.0 | 0.0 |
| 26 | 457.20 | 10.00 | 0.00 | 125.106 | 56.032 | 0.021 | 285.8 | 283.3 | 0.0 | 0.0 |
| 27 | 457.20 | 15.00 | 0.00 | 124.998 | 51.661 | 0.021 | 285.7 | 283.2 | 0.0 | 0.0 |
| 28 | 457.20 | 20.00 | 0.00 | 125.066 | 45.130 | 0.018 | 285.8 | 283.3 | 286.8 | 257.4 |
| 29 | 457.20 | 25.00 | 0.00 | 125.226 | 37.460 | 0.017 | 285.8 | 283.3 | 0.0 | 0.0 |
| 30 | 457.20 | 30.00 | 0.00 | 125.201 | 30.945 | 0.017 | 285.9 | 283.3 | 0.0 | 0.0 |
| 31 | 457.20 | 35.00 | 0.00 | 125.287 | 24.526 | 0.015 | 286.1 | 283.3 | 0.0 | 0.0 |
| 32 | 457.20 | 40.00 | 0.00 | 125.301 | 19.080 | 0.018 | 286.2 | 283.4 | 0.0 | 0.0 |
| 33 | 457.20 | 45.00 | 0.00 | 125.179 | 14.276 | 0.022 | 286.2 | 283.3 | 0.0 | 0.0 |
| 34 | 457.20 | 50.00 | 0.00 | 125.036 | 10.922 | 0.028 | 285.7 | 283.2 | 0.0 | 0.0 |
| 35 | 457.20 | 55.00 | 0.00 | 124.690 | 7.880 | 0.020 | 285.5 | 283.2 | 0.0 | 0.0 |
| 36 | 457.20 | 60.00 | 0.00 | 124.649 | 5.807 | 0.016 | 285.4 | 283.2 | 0.0 | 0.0 |
| 37 | 457.20 | 65.00 | 0.00 | 124.584 | 4.131 | 0.014 | 285.6 | 283.3 | 0.0 | 0.0 |
| 38 | 457.20 | 70.00 | 0.00 | 124.550 | 2.752 | 0.014 | 285.9 | 283.3 | 0.0 | 0.0 |
| 39 | 457.20 | 75.00 | 0.00 | 124.527 | 1.581 | 0.020 | 285.9 | 283.3 | 0.0 | 0.0 |
| 40 | 457.20 | 80.00 | 0.00 | 124.500 | 1.026 | 0.016 | 286.0 | 283.2 | 0.0 | 0.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.542 | 0.543 | 0.015 | 286.0 | 283.3 | 0.0 | 0.0 |
| 42 | 457.20 | 90.00 | 0.00 | 124.467 | 0.200 | 0.016 | 286.0 | 283.3 | 0.0 | 0.0 |
| 43 | 457.20 | 95.00 | 0.00 | 124.486 | 0.135 | 0.017 | 286.0 | 283.2 | 0.0 | 0.0 |
| 44 | 457.20 | 100.00 | 0.00 | 124.595 | 0.014 | 0.021 | 285.7 | 283.2 | 0.0 | 0.0 |
| 45 | 457.20 | 105.00 | 0.00 | 124.662 | 0.008 | 0.018 | 285.6 | 283.2 | 0.0 | 0.0 |
| 46 | 457.20 | 110.00 | 0.00 | 124.761 | 0.009 | 0.014 | 285.6 | 283.2 | 0.0 | 0.0 |

File : TAB201T 18-DEC-88
1-DEC-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB
Config IV(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.646 kPa

Mean gauged plenum pressure : 124.933 kPa
RMS gauged plenum pressure : 0.470 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 125.160 | 0.134 | 0.012 | 283.0 | 282.8 | 0.0 | 0.0 |
| 3 | 457.20 | 0.00 | -97.00 | 125.288 | 0.066 | 0.012 | 283.1 | 282.8 | 0.0 | 0.0 |
| 4 | 457.20 | 0.00 | -94.00 | 125.252 | 0.153 | 0.012 | 283.2 | 282.8 | 0.0 | 0.0 |
| 5 | 457.20 | 0.00 | -91.00 | 125.133 | 0.289 | 0.012 | 283.1 | 282.9 | 0.0 | 0.0 |
| 6 | 457.20 | 0.00 | -88.00 | 125.106 | 0.458 | 0.012 | 283.2 | 282.9 | 0.0 | 0.0 |
| 7 | 457.20 | 0.00 | -85.00 | 125.164 | 0.580 | 0.012 | 283.2 | 282.9 | 0.0 | 0.0 |
| 8 | 457.20 | 0.00 | -82.00 | 125.114 | 0.899 | 0.012 | 283.2 | 282.9 | 0.0 | 0.0 |
| 9 | 457.20 | 0.00 | -79.00 | 125.076 | 1.266 | 0.014 | 282.9 | 282.8 | 0.0 | 0.0 |
| 10 | 457.20 | 0.00 | -76.00 | 125.141 | 1.680 | 0.012 | 283.0 | 282.8 | 0.0 | 0.0 |
| 11 | 457.20 | 0.00 | -73.00 | 125.158 | 1.955 | 0.012 | 282.9 | 282.9 | 0.0 | 0.0 |
| 12 | 457.20 | 0.00 | -70.00 | 125.142 | 2.723 | 0.013 | 282.8 | 282.8 | 0.0 | 0.0 |
| 13 | 457.20 | 0.00 | -67.00 | 125.088 | 3.615 | 0.012 | 283.0 | 282.8 | 0.0 | 0.0 |
| 14 | 457.20 | 0.00 | -64.00 | 125.059 | 4.337 | 0.012 | 283.0 | 282.8 | 0.0 | 0.0 |
| 15 | 457.20 | 0.00 | -61.00 | 125.152 | 5.264 | 0.012 | 283.2 | 282.8 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -58.00 | 125.097 | 6.522 | 0.012 | 283.2 | 282.8 | 0.0 | 0.0 |
| 17 | 457.20 | 0.00 | -55.00 | 124.933 | 7.849 | 0.012 | 283.2 | 282.9 | 0.0 | 0.0 |
| 18 | 457.20 | 0.00 | -52.00 | 124.682 | 9.327 | 0.012 | 283.2 | 282.9 | 0.0 | 0.0 |
| 19 | 457.20 | 0.00 | -49.00 | 124.674 | 10.595 | 0.012 | 283.3 | 282.8 | 0.0 | 0.0 |
| 20 | 457.20 | 0.00 | -46.00 | 124.638 | 13.051 | 0.012 | 283.4 | 282.9 | 0.0 | 0.0 |
| 21 | 457.20 | 0.00 | -43.00 | 124.593 | 14.749 | 0.012 | 283.6 | 282.9 | 0.0 | 0.0 |
| 22 | 457.20 | 0.00 | -40.00 | 124.935 | 16.984 | 0.012 | 283.7 | 282.9 | 277.9 | 265.5 |
| 23 | 457.20 | 0.00 | -37.00 | 125.363 | 19.031 | 0.012 | 283.8 | 282.9 | 0.0 | 0.0 |
| 24 | 457.20 | 0.00 | -34.00 | 125.469 | 21.909 | 0.013 | 283.7 | 282.9 | 98.7 | 93.2 |
| 25 | 457.20 | 0.00 | -31.00 | 125.425 | 24.667 | 0.013 | 283.6 | 282.9 | 0.0 | 0.0 |
| 26 | 457.20 | 0.00 | -28.00 | 125.445 | 28.221 | 0.014 | 283.5 | 282.9 | 0.0 | 0.0 |
| 27 | 457.20 | 0.00 | -25.00 | 125.466 | 32.151 | 0.014 | 283.5 | 282.9 | 0.0 | 0.0 |
| 28 | 457.20 | 0.00 | -22.00 | 125.472 | 35.454 | 0.012 | 283.5 | 282.9 | 0.0 | 0.0 |
| 29 | 457.20 | 0.00 | -19.00 | 125.276 | 39.289 | 0.012 | 283.4 | 282.9 | 105.1 | 95.5 |
| 30 | 457.20 | 0.00 | -16.00 | 125.048 | 43.486 | 0.012 | 283.7 | 283.0 | 109.8 | 98.9 |
| 31 | 457.20 | 0.00 | -13.00 | 124.993 | 47.174 | 0.012 | 283.8 | 283.0 | 0.0 | 0.0 |
| 32 | 457.20 | 0.00 | -10.00 | 124.973 | 50.301 | 0.012 | 283.8 | 283.0 | 0.0 | 0.0 |
| 33 | 457.20 | 0.00 | -7.00 | 125.029 | 52.637 | 0.013 | 283.6 | 283.0 | 0.0 | 0.0 |
| 34 | 457.20 | 0.00 | -4.00 | 125.088 | 53.815 | 0.013 | 283.5 | 282.9 | 0.0 | 0.0 |
| 35 | 457.20 | 0.00 | -1.00 | 125.009 | 54.913 | 0.015 | 283.4 | 283.0 | 0.0 | 0.0 |
| 36 | 457.20 | 0.00 | 2.00 | 124.590 | 53.293 | 0.014 | 283.5 | 282.9 | 0.0 | 0.0 |
| 37 | 457.20 | 0.00 | 5.00 | 124.448 | 52.155 | 0.014 | 283.5 | 282.9 | 0.0 | 0.0 |
| 38 | 457.20 | 0.00 | 8.00 | 124.359 | 49.682 | 0.017 | 283.6 | 282.9 | 0.0 | 0.0 |
| 39 | 457.20 | 0.00 | 11.00 | 124.334 | 46.513 | 0.019 | 283.6 | 283.0 | 0.0 | 0.0 |
| 40 | 457.20 | 0.00 | 14.00 | 124.280 | 43.120 | 0.020 | 283.6 | 283.0 | 0.0 | 0.0 |
| 41 | 457.20 | 0.00 | 17.00 | 123.673 | 39.172 | 0.017 | 283.8 | 283.0 | 0.0 | 0.0 |
| 42 | 457.20 | 0.00 | 20.00 | 123.695 | 35.787 | 0.020 | 283.9 | 283.0 | 165.2 | 151.2 |

File : TAB218T

7-DEC-88
7-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config IV(b), -14 deg.

C1 : X/D = 9
C2 : DIAGONAL PROFILE
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.138 kPa

Mean gauged plenum pressure : 125.049 kPa
RMS gauged plenum pressure : 0.485 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.510 | 0.091 | 0.024 | 289.7 | 282.8 | 289.0 | 288.9 |
| 3 | 457.20 | -105.00 | 0.00 | 124.438 | 0.036 | 0.027 | 289.6 | 282.8 | 289.0 | 289.0 |
| 4 | 457.20 | -100.00 | 0.00 | 124.421 | 0.026 | 0.030 | 289.5 | 282.8 | 288.8 | 288.8 |
| 5 | 457.20 | -95.00 | 0.00 | 124.417 | 0.013 | 0.032 | 289.5 | 282.9 | 288.8 | 288.8 |
| 6 | 457.20 | -90.00 | 0.00 | 124.457 | 0.014 | 0.028 | 289.6 | 282.9 | 288.8 | 288.8 |
| 7 | 457.20 | -85.00 | 0.00 | 124.643 | 0.016 | 0.032 | 289.8 | 282.9 | 288.9 | 288.9 |
| 8 | 457.20 | -80.00 | 0.00 | 124.787 | 0.155 | 0.031 | 289.9 | 283.0 | 288.6 | 288.5 |
| 9 | 457.20 | -75.00 | 0.00 | 124.916 | 0.474 | 0.031 | 290.0 | 283.0 | 288.6 | 288.2 |
| 10 | 457.20 | -70.00 | 0.00 | 125.017 | 0.742 | 0.032 | 290.2 | 283.0 | 288.3 | 287.7 |
| 11 | 457.20 | -65.00 | 0.00 | 125.060 | 1.455 | 0.029 | 290.3 | 283.0 | 288.3 | 287.1 |
| 12 | 457.20 | -60.00 | 0.00 | 125.136 | 2.352 | 0.032 | 290.2 | 283.0 | 287.9 | 286.0 |
| 13 | 457.20 | -55.00 | 0.00 | 125.066 | 3.698 | 0.037 | 290.0 | 282.9 | 287.6 | 284.6 |
| 14 | 457.20 | -50.00 | 0.00 | 124.946 | 4.930 | 0.037 | 290.0 | 282.9 | 287.3 | 283.3 |
| 15 | 457.20 | -45.00 | 0.00 | 124.820 | 6.776 | 0.031 | 290.0 | 282.9 | 286.8 | 281.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.742 | 9.735 | 0.033 | 289.8 | 282.9 | 286.4 | 278.8 |
| 17 | 457.20 | -35.00 | 0.00 | 124.670 | 13.303 | 0.027 | 289.8 | 282.9 | 286.0 | 275.8 |
| 18 | 457.20 | -30.00 | 0.00 | 124.634 | 17.325 | 0.026 | 290.2 | 282.8 | 285.6 | 272.6 |
| 19 | 457.20 | -25.00 | 0.00 | 124.658 | 21.415 | 0.024 | 290.8 | 282.8 | 285.1 | 269.4 |
| 20 | 457.20 | -20.00 | 0.00 | 124.683 | 27.308 | 0.023 | 291.0 | 282.8 | 284.9 | 265.6 |
| 21 | 457.20 | -15.00 | 0.00 | 124.675 | 33.679 | 0.023 | 290.7 | 282.8 | 284.4 | 261.4 |
| 22 | 457.20 | -10.00 | 0.00 | 124.654 | 40.337 | 0.030 | 290.6 | 282.8 | 284.1 | 257.4 |
| 23 | 457.20 | -5.00 | 0.00 | 124.601 | 47.126 | 0.024 | 290.3 | 282.8 | 284.1 | 253.9 |
| 24 | 457.20 | 0.00 | 0.00 | 124.581 | 53.246 | 0.035 | 289.9 | 282.7 | 284.2 | 251.0 |
| 25 | 457.20 | 5.00 | 0.00 | 124.532 | 56.063 | 0.034 | 289.8 | 282.8 | 284.3 | 249.8 |
| 26 | 457.20 | 10.00 | 0.00 | 124.535 | 55.734 | 0.025 | 289.8 | 282.7 | 284.4 | 250.0 |
| 27 | 457.20 | 15.00 | 0.00 | 124.553 | 51.406 | 0.021 | 289.8 | 282.7 | 284.3 | 252.0 |
| *28* | *457.20* | *20.00* | *0.00* | *124.594* | *44.975* | *0.023* | *289.7* | *282.7* | *283.8* | *254.7* |
| 29 | 457.20 | 25.00 | 0.00 | 124.610 | 36.768 | 0.028 | 289.7 | 282.8 | 283.8 | 259.1 |
| 30 | 457.20 | 30.00 | 0.00 | 125.654 | 30.528 | 0.032 | 289.8 | 282.7 | 283.8 | 262.6 |
| 31 | 457.20 | 35.00 | 0.00 | 125.709 | 23.769 | 0.027 | 289.9 | 282.8 | 284.3 | 267.2 |
| 32 | 457.20 | 40.00 | 0.00 | 125.724 | 18.218 | 0.031 | 290.0 | 282.8 | 284.7 | 271.2 |
| 33 | 457.20 | 45.00 | 0.00 | 125.678 | 13.814 | 0.032 | 290.2 | 282.8 | 285.3 | 274.7 |
| 34 | 457.20 | 50.00 | 0.00 | 125.728 | 10.347 | 0.033 | 290.3 | 282.9 | 285.6 | 277.5 |
| 35 | 457.20 | 55.00 | 0.00 | 125.726 | 7.520 | 0.037 | 290.3 | 282.9 | 286.1 | 280.1 |
| 36 | 457.20 | 60.00 | 0.00 | 125.685 | 4.853 | 0.037 | 290.5 | 282.9 | 286.9 | 283.0 |
| 37 | 457.20 | 65.00 | 0.00 | 125.692 | 3.540 | 0.031 | 290.8 | 282.9 | 287.4 | 284.5 |
| 38 | 457.20 | 70.00 | 0.00 | 125.641 | 2.077 | 0.034 | 291.0 | 282.9 | 287.7 | 286.0 |
| 39 | 457.20 | 75.00 | 0.00 | 125.625 | 1.450 | 0.034 | 291.0 | 282.9 | 288.2 | 287.0 |
| 40 | 457.20 | 80.00 | 0.00 | 125.579 | 0.749 | 0.037 | 291.3 | 282.9 | 288.6 | 288.0 |
| 41 | 457.20 | 85.00 | 0.00 | 125.607 | 0.402 | 0.036 | 291.3 | 283.0 | 288.4 | 288.1 |
| 42 | 457.20 | 90.00 | 0.00 | 125.586 | 0.284 | 0.038 | 291.2 | 282.9 | 288.6 | 288.4 |
| 43 | 457.20 | 95.00 | 0.00 | 125.547 | 0.069 | 0.034 | 291.2 | 282.9 | 289.1 | 289.0 |
| 44 | 457.20 | 100.00 | 0.00 | 125.530 | 0.020 | 0.034 | 291.2 | 282.9 | 289.4 | 289.4 |
| 45 | 457.20 | 105.00 | 0.00 | 125.530 | 0.010 | 0.032 | 291.4 | 282.9 | 290.0 | 290.0 |
| 46 | 457.20 | 110.00 | 0.00 | 125.533 | 0.010 | 0.029 | 291.5 | 282.9 | 290.4 | 290.4 |

File : TAB232T 16-DEC-88
16-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB,PLTDMN
Config IV(b), +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.578 kPa

Mean gauged plenum pressure : 125.029 kPa
RMS gauged plenum pressure : 0.867 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.633 | 0.057 | 0.013 | 274.7 | 279.6 | 274.9 | 274.9 |
| 3 | 457.20 | -105.00 | 0.00 | 126.226 | 0.014 | 0.014 | 274.7 | 279.9 | 274.8 | 274.8 |
| 4 | 457.20 | -100.00 | 0.00 | 125.531 | 0.012 | 0.014 | 274.8 | 280.0 | 274.9 | 274.9 |
| 5 | 457.20 | -95.00 | 0.00 | 125.945 | 0.012 | 0.013 | 274.7 | 280.2 | 274.8 | 274.8 |
| 6 | 457.20 | -90.00 | 0.00 | 124.207 | 0.029 | 0.015 | 274.7 | 280.3 | 274.8 | 274.8 |
| 7 | 457.20 | -85.00 | 0.00 | 124.367 | 0.074 | 0.015 | 274.7 | 280.3 | 274.8 | 274.7 |
| 8 | 457.20 | -80.00 | 0.00 | 124.178 | 0.196 | 0.017 | 274.8 | 280.4 | 274.8 | 274.6 |
| 9 | 457.20 | -75.00 | 0.00 | 123.641 | 0.287 | 0.015 | 274.7 | 280.4 | 274.8 | 274.6 |
| 10 | 457.20 | -70.00 | 0.00 | 124.024 | 0.693 | 0.020 | 274.7 | 280.4 | 274.8 | 274.2 |
| 11 | 457.20 | -65.00 | 0.00 | 124.094 | 1.067 | 0.021 | 274.7 | 280.4 | 274.8 | 274.0 |
| 12 | 457.20 | -60.00 | 0.00 | 124.067 | 2.054 | 0.018 | 274.7 | 280.4 | 274.8 | 273.2 |
| 13 | 457.20 | -55.00 | 0.00 | 123.829 | 3.135 | 0.019 | 274.7 | 280.4 | 274.9 | 272.4 |
| 14 | 457.20 | -50.00 | 0.00 | 124.169 | 4.366 | 0.021 | 274.8 | 280.4 | 274.8 | 271.4 |
| 15 | 457.20 | -45.00 | 0.00 | 123.884 | 6.297 | 0.025 | 274.7 | 280.4 | 274.8 | 270.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 123.891 | 8.549 | 0.023 | 274.7 | 280.5 | 274.8 | 268.3 |
| 17 | 457.20 | -35.00 | 0.00 | 123.906 | 11.240 | 0.023 | 274.7 | 280.4 | 274.8 | 266.4 |
| 18 | 457.20 | -30.00 | 0.00 | 123.743 | 14.149 | 0.024 | 274.8 | 280.5 | 274.8 | 264.4 |
| 19 | 457.20 | -25.00 | 0.00 | 123.868 | 18.778 | 0.027 | 274.8 | 280.5 | 274.8 | 261.4 |
| 20 | 457.20 | -20.00 | 0.00 | 125.087 | 24.159 | 0.024 | 274.7 | 280.4 | 274.8 | 258.1 |
| 21 | 457.20 | -15.00 | 0.00 | 125.356 | 29.655 | 0.027 | 274.8 | 280.4 | 274.8 | 254.9 |
| 22 | 457.20 | -10.00 | 0.00 | 125.521 | 37.939 | 0.025 | 274.8 | 280.4 | 274.8 | 250.3 |
| 23 | 457.20 | -5.00 | 0.00 | 125.743 | 44.728 | 0.029 | 274.9 | 280.4 | 274.8 | 246.9 |
| 24 | 457.20 | 0.00 | 0.00 | 125.906 | 51.347 | 0.027 | 274.9 | 280.4 | 274.7 | 243.6 |
| 25 | 457.20 | 5.00 | 0.00 | 126.008 | 55.721 | 0.026 | 274.8 | 280.3 | 274.7 | 241.6 |
| 26 | 457.20 | 10.00 | 0.00 | 125.930 | 56.780 | 0.027 | 274.9 | 280.3 | 274.7 | 241.1 |
| 27 | 457.20 | 15.00 | 0.00 | 125.575 | 54.006 | 0.023 | 274.9 | 280.3 | 274.6 | 242.3 |
| 28 | 457.20 | 20.00 | 0.00 | 125.266 | 48.686 | 0.025 | 274.9 | 280.3 | 274.6 | 244.8 |
| 29 | 457.20 | 25.00 | 0.00 | 124.987 | 42.925 | 0.026 | 274.8 | 280.3 | 274.6 | 247.6 |
| 30 | 457.20 | 30.00 | 0.00 | 124.809 | 35.338 | 0.026 | 274.8 | 280.3 | 274.6 | 251.5 |
| 31 | 457.20 | 35.00 | 0.00 | 124.797 | 28.740 | 0.023 | 274.9 | 280.3 | 274.6 | 255.2 |
| 32 | 457.20 | 40.00 | 0.00 | 124.689 | 22.341 | 0.024 | 274.8 | 280.3 | 274.6 | 259.0 |
| 33 | 457.20 | 45.00 | 0.00 | 124.638 | 17.769 | 0.020 | 274.8 | 280.3 | 274.7 | 262.0 |
| 34 | 457.20 | 50.00 | 0.00 | 124.635 | 13.555 | 0.021 | 274.7 | 280.3 | 274.6 | 264.7 |
| 35 | 457.20 | 55.00 | 0.00 | 124.815 | 9.993 | 0.024 | 274.7 | 280.2 | 274.5 | 267.0 |
| 36 | 457.20 | 60.00 | 0.00 | 125.074 | 7.380 | 0.021 | 274.7 | 280.1 | 274.6 | 269.0 |
| 37 | 457.20 | 65.00 | 0.00 | 125.372 | 5.314 | 0.025 | 274.7 | 280.2 | 274.6 | 270.5 |
| 38 | 457.20 | 70.00 | 0.00 | 125.849 | 3.367 | 0.022 | 274.7 | 280.2 | 274.6 | 272.0 |
| 39 | 457.20 | 75.00 | 0.00 | 126.231 | 2.303 | 0.024 | 274.7 | 280.2 | 274.5 | 272.7 |
| 40 | 457.20 | 80.00 | 0.00 | 126.571 | 1.258 | 0.025 | 274.7 | 280.1 | 274.6 | 273.6 |
| 41 | 457.20 | 85.00 | 0.00 | 126.854 | 1.076 | 0.023 | 274.7 | 280.2 | 274.6 | 273.7 |
| 42 | 457.20 | 90.00 | 0.00 | 126.924 | 0.550 | 0.019 | 274.6 | 280.2 | 274.6 | 274.2 |
| 43 | 457.20 | 95.00 | 0.00 | 125.267 | 0.211 | 0.019 | 274.7 | 280.2 | 274.6 | 274.4 |
| 44 | 457.20 | 100.00 | 0.00 | 125.307 | 0.107 | 0.020 | 274.7 | 280.2 | 274.6 | 274.5 |
| 45 | 457.20 | 105.00 | 0.00 | 125.294 | 0.013 | 0.019 | 274.6 | 280.2 | 274.6 | 274.6 |
| 46 | 457.20 | 110.00 | 0.00 | 125.239 | 0.011 | 0.019 | 274.6 | 280.1 | 274.6 | 274.6 |

File : TAB243T 3-JAN-89
3-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, Config VI(a)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 97.596 kPa

Mean gauged plenum pressure : 124.190 kPa
RMS gauged plenum pressure : 0.598 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.673 | 0.221 | 0.013 | 282.2 | 280.8 | 282.1 | 281.9 |
| 3 | 457.20 | -105.00 | 0.00 | 124.717 | 0.331 | 0.014 | 282.2 | 280.8 | 282.2 | 281.9 |
| 4 | 457.20 | -100.00 | 0.00 | 124.671 | 0.749 | 0.013 | 282.3 | 280.8 | 282.2 | 281.6 |
| 5 | 457.20 | -95.00 | 0.00 | 124.513 | 1.258 | 0.015 | 282.3 | 280.8 | 282.3 | 281.3 |
| 6 | 457.20 | -90.00 | 0.00 | 124.258 | 2.224 | 0.014 | 282.3 | 280.8 | 282.3 | 280.5 |
| 7 | 457.20 | -85.00 | 0.00 | 123.977 | 3.088 | 0.013 | 282.4 | 280.8 | 282.3 | 279.8 |
| 8 | 457.20 | -80.00 | 0.00 | 123.792 | 4.327 | 0.015 | 282.3 | 280.8 | 282.3 | 278.8 |
| 9 | 457.20 | -75.00 | 0.00 | 123.741 | 6.114 | 0.016 | 282.3 | 280.8 | 282.3 | 277.4 |
| 10 | 457.20 | -70.00 | 0.00 | 123.701 | 8.047 | 0.015 | 282.3 | 280.8 | 282.3 | 276.0 |
| 11 | 457.20 | -65.00 | 0.00 | 123.771 | 10.173 | 0.015 | 282.3 | 280.7 | 282.3 | 274.4 |
| 12 | 457.20 | -60.00 | 0.00 | 124.092 | 12.776 | 0.014 | 282.3 | 280.8 | 282.3 | 272.5 |
| 13 | 457.20 | -55.00 | 0.00 | 124.293 | 15.404 | 0.020 | 282.2 | 280.7 | 282.2 | 270.6 |
| 14 | 457.20 | -50.00 | 0.00 | 124.535 | 17.745 | 0.023 | 282.3 | 280.8 | 282.2 | 269.0 |
| 15 | 457.20 | -45.00 | 0.00 | 124.560 | 19.985 | 0.017 | 282.3 | 280.7 | 282.2 | 267.5 |
| 16 | 457.20 | -40.00 | 0.00 | 124.597 | 21.901 | 0.019 | 282.3 | 280.7 | 282.3 | 266.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 124.570 | 23.760 | 0.018 | 282.4 | 280.7 | 282.2 | 265.1 |
| 18 | 457.20 | -30.00 | 0.00 | 124.588 | 25.840 | 0.025 | 282.4 | 280.7 | 282.3 | 263.9 |
| 19 | 457.20 | -25.00 | 0.00 | 124.544 | 28.856 | 0.024 | 282.4 | 280.7 | 282.2 | 262.0 |
| 20 | 457.20 | -20.00 | 0.00 | 124.508 | 32.634 | 0.020 | 282.4 | 280.7 | 282.3 | 259.9 |
| 21 | 457.20 | -15.00 | 0.00 | 124.092 | 37.758 | 0.024 | 282.5 | 280.7 | 281.7 | 256.5 |
| 22 | 457.20 | -10.00 | 0.00 | 124.661 | 43.202 | 0.021 | 282.5 | 280.7 | 282.2 | 254.1 |
| 23 | 457.20 | -5.00 | 0.00 | 124.326 | 47.779 | 0.025 | 282.5 | 280.7 | 282.1 | 251.7 |
| 24 | 457.20 | 0.00 | 0.00 | 124.274 | 50.554 | 0.022 | 282.5 | 280.7 | 282.0 | 250.2 |
| 25 | 457.20 | 5.00 | 0.00 | 124.188 | 49.910 | 0.022 | 282.5 | 280.7 | 282.2 | 250.7 |
| 26 | 457.20 | 10.00 | 0.00 | 124.205 | 46.650 | 0.021 | 282.5 | 280.7 | 281.7 | 251.9 |
| 27 | 457.20 | 15.00 | 0.00 | 124.163 | 41.697 | 0.021 | 282.6 | 280.6 | 281.9 | 254.6 |
| 28 | 457.20 | 20.00 | 0.00 | 124.186 | 36.046 | 0.023 | 282.6 | 280.7 | 281.8 | 257.5 |
| 29 | 457.20 | 25.00 | 0.00 | 124.115 | 31.650 | 0.020 | 282.6 | 280.6 | 282.3 | 260.5 |
| 30 | 457.20 | 30.00 | 0.00 | 124.232 | 27.778 | 0.025 | 282.6 | 280.6 | 282.4 | 262.9 |
| 31 | 457.20 | 35.00 | 0.00 | 124.299 | 24.314 | 0.021 | 282.6 | 280.6 | 282.5 | 265.1 |
| 32 | 457.20 | 40.00 | 0.00 | 123.447 | 21.117 | 0.022 | 282.6 | 280.6 | 282.5 | 267.1 |
| 33 | 457.20 | 45.00 | 0.00 | 121.861 | 18.394 | 0.018 | 282.6 | 280.6 | 282.5 | 268.9 |
| 34 | 457.20 | 50.00 | 0.00 | 123.486 | 15.765 | 0.018 | 282.7 | 280.6 | 282.5 | 270.6 |
| 35 | 457.20 | 55.00 | 0.00 | 123.843 | 13.462 | 0.016 | 282.7 | 280.7 | 282.6 | 272.3 |
| 36 | 457.20 | 60.00 | 0.00 | 124.051 | 11.048 | 0.020 | 282.8 | 280.6 | 282.6 | 274.1 |
| 37 | 457.20 | 65.00 | 0.00 | 124.372 | 8.645 | 0.019 | 282.8 | 280.6 | 282.6 | 275.8 |
| 38 | 457.20 | 70.00 | 0.00 | 124.568 | 7.050 | 0.020 | 282.8 | 280.6 | 282.7 | 277.1 |
| 39 | 457.20 | 75.00 | 0.00 | 124.201 | 5.247 | 0.015 | 282.8 | 280.6 | 282.7 | 278.5 |
| 40 | 457.20 | 80.00 | 0.00 | 124.029 | 3.770 | 0.019 | 282.8 | 280.6 | 282.7 | 279.6 |
| 41 | 457.20 | 85.00 | 0.00 | 123.322 | 2.688 | 0.016 | 282.9 | 280.6 | 282.7 | 280.5 |
| 42 | 457.20 | 90.00 | 0.00 | 123.290 | 1.564 | 0.019 | 282.8 | 280.6 | 282.7 | 281.4 |
| 43 | 457.20 | 95.00 | 0.00 | 123.713 | 1.066 | 0.017 | 282.8 | 280.6 | 282.7 | 281.8 |
| 44 | 457.20 | 100.00 | 0.00 | 124.213 | 0.722 | 0.017 | 282.8 | 280.6 | 282.7 | 282.1 |
| 45 | 457.20 | 105.00 | 0.00 | 124.886 | 0.416 | 0.014 | 282.8 | 280.6 | 282.7 | 282.4 |
| 46 | 457.20 | 110.00 | 0.00 | 125.882 | 0.163 | 0.013 | 282.9 | 280.6 | 282.7 | 282.6 |

File : TAB244T 3-JAN-89
3-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, Config VI(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.562 kPa

Mean gauged plenum pressure : 124.004 kPa
RMS gauged plenum pressure : 0.417 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 123.834 | 2.242 | 0.013 | 283.0 | 280.5 | 282.8 | 281.0 |
| 3 | 457.20 | 0.00 | -58.00 | 123.777 | 2.736 | 0.013 | 283.0 | 280.5 | 282.8 | 280.6 |
| 4 | 457.20 | 0.00 | -56.00 | 124.084 | 3.279 | 0.013 | 283.0 | 280.6 | 282.8 | 280.1 |
| 5 | 457.20 | 0.00 | -54.00 | 124.539 | 4.064 | 0.013 | 283.0 | 280.6 | 282.8 | 279.5 |
| 6 | 457.20 | 0.00 | -52.00 | 124.326 | 4.723 | 0.013 | 283.0 | 280.5 | 282.9 | 279.1 |
| 7 | 457.20 | 0.00 | -50.00 | 123.843 | 5.516 | 0.014 | 283.0 | 280.6 | 282.9 | 278.5 |
| 8 | 457.20 | 0.00 | -48.00 | 124.089 | 6.453 | 0.017 | 283.0 | 280.5 | 282.9 | 277.8 |
| 9 | 457.20 | 0.00 | -46.00 | 124.113 | 7.543 | 0.013 | 283.0 | 280.6 | 282.9 | 276.9 |
| 10 | 457.20 | 0.00 | -44.00 | 123.954 | 8.818 | 0.012 | 283.0 | 280.5 | 282.9 | 276.0 |
| 11 | 457.20 | 0.00 | -42.00 | 123.689 | 10.190 | 0.013 | 283.0 | 280.5 | 282.9 | 275.0 |
| 12 | 457.20 | 0.00 | -40.00 | 123.483 | 11.554 | 0.013 | 283.0 | 280.5 | 283.0 | 274.1 |
| 13 | 457.20 | 0.00 | -38.00 | 123.270 | 12.969 | 0.013 | 283.0 | 280.5 | 282.9 | 273.0 |
| 14 | 457.20 | 0.00 | -36.00 | 124.238 | 14.925 | 0.013 | 283.0 | 280.5 | 282.9 | 271.6 |
| 15 | 457.20 | 0.00 | -34.00 | 124.135 | 16.813 | 0.014 | 283.1 | 280.5 | 282.9 | 270.3 |
| 16 | 457.20 | 0.00 | -32.00 | 124.147 | 18.652 | 0.014 | 283.1 | 280.5 | 282.9 | 269.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -30.00 | 123.558 | 20.828 | 0.015 | 283.1 | 280.5 | 282.9 | 267.7 |
| 18 | 457.20 | 0.00 | -28.00 | 123.990 | 22.950 | 0.017 | 283.0 | 280.5 | 282.6 | 266.0 |
| 19 | 457.20 | 0.00 | -26.00 | 124.254 | 25.720 | 0.013 | 283.1 | 280.5 | 282.9 | 264.6 |
| 20 | 457.20 | 0.00 | -24.00 | 124.104 | 28.176 | 0.014 | 283.0 | 280.5 | 282.9 | 263.1 |
| 21 | 457.20 | 0.00 | -22.00 | 124.166 | 30.700 | 0.013 | 283.1 | 280.5 | 282.6 | 261.3 |
| 22 | 457.20 | 0.00 | -20.00 | 124.204 | 33.432 | 0.013 | 283.1 | 280.5 | 282.6 | 259.7 |
| 23 | 457.20 | 0.00 | -18.00 | 124.534 | 36.448 | 0.013 | 283.1 | 280.5 | 282.5 | 257.9 |
| 24 | 457.20 | 0.00 | -16.00 | 124.503 | 38.820 | 0.017 | 283.1 | 280.5 | 282.5 | 256.7 |
| 25 | 457.20 | 0.00 | -14.00 | 124.401 | 41.190 | 0.013 | 283.1 | 280.5 | 282.4 | 255.3 |
| 26 | 457.20 | 0.00 | -12.00 | 124.141 | 43.600 | 0.014 | 283.1 | 280.5 | 282.5 | 254.1 |
| 27 | 457.20 | 0.00 | -10.00 | 123.771 | 45.881 | 0.014 | 283.1 | 280.5 | 282.6 | 253.1 |
| 28 | 457.20 | 0.00 | -8.00 | 123.612 | 47.538 | 0.017 | 283.1 | 280.5 | 282.5 | 252.1 |
| 29 | 457.20 | 0.00 | -6.00 | 123.493 | 48.509 | 0.017 | 283.1 | 280.5 | 282.7 | 251.8 |
| 30 | 457.20 | 0.00 | -4.00 | 124.072 | 50.320 | 0.014 | 283.1 | 280.5 | 282.5 | 250.8 |
| 31 | 457.20 | 0.00 | -2.00 | 124.540 | 50.522 | 0.017 | 283.1 | 280.5 | 282.6 | 250.8 |
| 32 | 457.20 | 0.00 | 0.00 | 125.083 | 51.302 | 0.018 | 283.1 | 280.5 | 282.1 | 249.9 |
| 33 | 457.20 | 0.00 | 2.00 | 124.431 | 50.559 | 0.021 | 283.1 | 280.5 | 282.5 | 250.7 |
| 34 | 457.20 | 0.00 | 4.00 | 123.725 | 48.882 | 0.019 | 283.1 | 280.5 | 282.6 | 251.6 |
| 35 | 457.20 | 0.00 | 6.00 | 123.793 | 47.809 | 0.019 | 283.1 | 280.5 | 282.6 | 252.1 |
| 36 | 457.20 | 0.00 | 8.00 | 123.841 | 46.157 | 0.022 | 283.1 | 280.5 | 282.3 | 252.6 |
| 37 | 457.20 | 0.00 | 10.00 | 123.565 | 43.870 | 0.021 | 283.1 | 280.5 | 282.0 | 253.5 |

File : TAB258T 12-JAN-89
12-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN, -14 DEG
CONFIG VI(A)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 124.845 kPa
RMS gauged plenum pressure : 0.307 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.746 | 0.232 | 0.012 | 283.8 | 281.2 | 283.0 | 282.8 |
| 3 | 457.20 | -105.00 | 0.00 | 124.659 | 0.241 | 0.012 | 283.8 | 281.2 | 282.9 | 282.7 |
| 4 | 457.20 | -100.00 | 0.00 | 125.045 | 0.515 | 0.012 | 283.8 | 281.3 | 282.8 | 282.4 |
| 5 | 457.20 | -95.00 | 0.00 | 125.282 | 0.898 | 0.012 | 283.8 | 281.3 | 282.7 | 282.0 |
| 6 | 457.20 | -90.00 | 0.00 | 125.193 | 1.459 | 0.012 | 283.8 | 281.3 | 283.5 | 282.3 |
| 7 | 457.20 | -85.00 | 0.00 | 125.389 | 2.182 | 0.013 | 283.8 | 281.3 | 283.8 | 282.0 |
| 8 | 457.20 | -80.00 | 0.00 | 124.559 | 3.577 | 0.013 | 283.8 | 281.3 | 283.8 | 280.9 |
| 9 | 457.20 | -75.00 | 0.00 | 124.472 | 5.518 | 0.014 | 283.8 | 281.3 | 283.8 | 279.4 |
| 10 | 457.20 | -70.00 | 0.00 | 125.022 | 6.186 | 0.013 | 283.8 | 281.3 | 283.8 | 278.9 |
| 11 | 457.20 | -65.00 | 0.00 | 124.672 | 8.816 | 0.014 | 283.8 | 281.3 | 283.6 | 276.7 |
| 12 | 457.20 | -60.00 | 0.00 | 124.658 | 10.662 | 0.012 | 283.8 | 281.4 | 283.4 | 275.2 |
| 13 | 457.20 | -55.00 | 0.00 | 125.127 | 12.754 | 0.013 | 283.8 | 281.3 | 283.3 | 273.6 |
| 14 | 457.20 | -50.00 | 0.00 | 125.074 | 14.616 | 0.013 | 283.8 | 281.3 | 282.5 | 271.5 |
| 15 | 457.20 | -45.00 | 0.00 | 124.964 | 16.719 | 0.015 | 283.8 | 281.4 | 280.6 | 268.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 125.200 | 18.889 | 0.014 | 283.8 | 281.3 | 283.1 | 269.2 |
| 17 | 457.20 | -35.00 | 0.00 | 125.343 | 20.615 | 0.015 | 283.9 | 281.4 | 283.0 | 268.0 |
| 18 | 457.20 | -30.00 | 0.00 | 125.445 | 23.463 | 0.013 | 283.9 | 281.3 | 283.0 | 266.2 |
| 19 | 457.20 | -25.00 | 0.00 | 124.853 | 26.759 | 0.014 | 283.9 | 281.4 | 283.1 | 264.3 |
| 20 | 457.20 | -20.00 | 0.00 | 124.622 | 31.098 | 0.017 | 283.9 | 281.3 | 283.1 | 261.7 |
| 21 | 457.20 | -15.00 | 0.00 | 124.599 | 36.584 | 0.019 | 283.9 | 281.4 | 281.2 | 256.9 |
| 22 | 457.20 | -10.00 | 0.00 | 124.748 | 42.120 | 0.015 | 283.9 | 281.3 | 282.6 | 255.2 |
| 23 | 457.20 | -5.00 | 0.00 | 124.688 | 48.240 | 0.017 | 283.9 | 281.4 | 283.4 | 252.8 |
| 24 | 457.20 | 0.00 | 0.00 | 124.652 | 50.464 | 0.016 | 284.0 | 281.4 | 283.7 | 252.0 |
| 25 | 457.20 | 5.00 | 0.00 | 124.532 | 49.184 | 0.014 | 283.9 | 281.4 | 283.6 | 252.5 |
| 26 | 457.20 | 10.00 | 0.00 | 124.584 | 44.289 | 0.018 | 284.0 | 281.3 | 283.7 | 255.1 |
| 27 | 457.20 | 15.00 | 0.00 | 124.888 | 38.090 | 0.014 | 283.9 | 281.4 | 283.8 | 258.4 |
| 28 | 457.20 | 20.00 | 0.00 | 125.084 | 32.694 | 0.013 | 283.9 | 281.4 | 282.2 | 260.0 |
| 29 | 457.20 | 25.00 | 0.00 | 125.280 | 26.830 | 0.014 | 283.9 | 281.4 | 283.3 | 264.4 |
| 30 | 457.20 | 30.00 | 0.00 | 125.212 | 22.673 | 0.015 | 283.9 | 281.4 | 283.5 | 267.2 |
| 31 | 457.20 | 35.00 | 0.00 | 125.033 | 19.557 | 0.014 | 283.9 | 281.4 | 283.6 | 269.3 |
| 32 | 457.20 | 40.00 | 0.00 | 125.080 | 16.079 | 0.015 | 283.9 | 281.4 | 283.8 | 271.8 |
| 33 | 457.20 | 45.00 | 0.00 | 125.117 | 13.695 | 0.013 | 283.9 | 281.4 | 283.8 | 273.4 |
| 34 | 457.20 | 50.00 | 0.00 | 125.070 | 10.973 | 0.015 | 283.9 | 281.4 | 283.8 | 275.3 |
| 35 | 457.20 | 55.00 | 0.00 | 124.934 | 9.169 | 0.016 | 284.0 | 281.4 | 283.8 | 276.7 |
| 36 | 457.20 | 60.00 | 0.00 | 124.788 | 6.829 | 0.013 | 283.9 | 281.4 | 283.8 | 278.4 |
| 37 | 457.20 | 65.00 | 0.00 | 124.677 | 5.841 | 0.014 | 283.9 | 281.5 | 283.9 | 279.3 |
| 38 | 457.20 | 70.00 | 0.00 | 124.646 | 4.005 | 0.015 | 283.9 | 281.5 | 283.8 | 280.6 |
| 39 | 457.20 | 75.00 | 0.00 | 124.601 | 2.560 | 0.014 | 284.0 | 281.4 | 283.9 | 281.8 |
| 40 | 457.20 | 80.00 | 0.00 | 124.611 | 2.156 | 0.013 | 284.0 | 281.4 | 283.8 | 282.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.724 | 1.100 | 0.015 | 284.0 | 281.4 | 283.9 | 283.0 |
| 42 | 457.20 | 90.00 | 0.00 | 124.611 | 0.888 | 0.015 | 284.0 | 281.4 | 283.8 | 283.1 |
| 43 | 457.20 | 95.00 | 0.00 | 124.491 | 0.544 | 0.014 | 284.0 | 281.4 | 283.9 | 283.5 |
| 44 | 457.20 | 100.00 | 0.00 | 124.250 | 0.270 | 0.016 | 284.0 | 281.4 | 283.9 | 283.7 |
| 45 | 457.20 | 105.00 | 0.00 | 124.377 | 0.078 | 0.014 | 284.0 | 281.4 | 283.9 | 283.8 |
| 46 | 457.20 | 110.00 | 0.00 | 124.852 | 0.011 | 0.013 | 284.0 | 281.4 | 283.9 | 283.9 |

File : TAB234T

16-DEC-88
16-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config VI(a), +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.375 kPa

Mean gauged plenum pressure : 124.889 kPa
RMS gauged plenum pressure : 0.393 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.170 | 0.112 | 0.012 | 280.8 | 280.2 | 279.8 | 279.7 |
| 3 | 457.20 | -105.00 | 0.00 | 123.942 | 0.234 | 0.012 | 280.9 | 280.3 | 280.0 | 279.8 |
| 4 | 457.20 | -100.00 | 0.00 | 124.757 | 0.319 | 0.012 | 280.8 | 280.4 | 280.0 | 279.7 |
| 5 | 457.20 | -95.00 | 0.00 | 125.335 | 0.772 | 0.012 | 280.8 | 280.5 | 280.1 | 279.5 |
| 6 | 457.20 | -90.00 | 0.00 | 125.387 | 1.257 | 0.012 | 280.7 | 280.5 | 280.0 | 279.0 |
| 7 | 457.20 | -85.00 | 0.00 | 125.459 | 2.137 | 0.012 | 280.7 | 280.5 | 280.1 | 278.4 |
| 8 | 457.20 | -80.00 | 0.00 | 125.562 | 2.782 | 0.012 | 280.7 | 280.6 | 280.0 | 277.8 |
| 9 | 457.20 | -75.00 | 0.00 | 125.604 | 3.806 | 0.012 | 280.8 | 280.6 | 280.1 | 277.1 |
| 10 | 457.20 | -70.00 | 0.00 | 125.019 | 5.643 | 0.012 | 280.8 | 280.6 | 280.1 | 275.7 |
| 11 | 457.20 | -65.00 | 0.00 | 125.228 | 7.284 | 0.012 | 280.6 | 280.7 | 280.1 | 274.4 |
| 12 | 457.20 | -60.00 | 0.00 | 125.359 | 10.114 | 0.012 | 280.4 | 280.6 | 279.9 | 272.2 |
| 13 | 457.20 | -55.00 | 0.00 | 125.253 | 12.452 | 0.012 | 280.6 | 280.7 | 279.9 | 270.5 |
| 14 | 457.20 | -50.00 | 0.00 | 125.313 | 14.739 | 0.012 | 280.7 | 280.8 | 280.0 | 269.0 |
| 15 | 457.20 | -45.00 | 0.00 | 125.423 | 18.329 | 0.012 | 280.5 | 280.7 | 279.9 | 266.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 125.436 | 20.345 | 0.012 | 280.7 | 280.7 | 279.9 | 265.2 |
| 17 | 457.20 | -35.00 | 0.00 | 125.183 | 23.578 | 0.012 | 280.8 | 280.7 | 280.0 | 263.3 |
| 18 | 457.20 | -30.00 | 0.00 | 124.934 | 26.862 | 0.012 | 280.6 | 280.6 | 280.1 | 261.4 |
| 19 | 457.20 | -25.00 | 0.00 | 124.955 | 30.310 | 0.012 | 280.4 | 280.6 | 280.0 | 259.3 |
| 20 | 457.20 | -20.00 | 0.00 | 124.980 | 34.812 | 0.013 | 280.6 | 280.6 | 280.0 | 256.7 |
| 21 | 457.20 | -15.00 | 0.00 | 124.962 | 39.053 | 0.013 | 280.4 | 280.5 | 279.9 | 254.3 |
| 22 | 457.20 | -10.00 | 0.00 | 124.467 | 43.691 | 0.012 | 280.5 | 280.5 | 279.9 | 251.9 |
| 23 | 457.20 | -5.00 | 0.00 | 124.377 | 47.516 | 0.012 | 280.6 | 280.5 | 279.9 | 250.0 |
| 24 | 457.20 | 0.00 | 0.00 | 124.387 | 49.663 | 0.012 | 280.5 | 280.5 | 279.9 | 249.0 |
| 25 | 457.20 | 5.00 | 0.00 | 124.568 | 49.350 | 0.012 | 280.4 | 280.6 | 279.8 | 249.0 |
| 26 | 457.20 | 10.00 | 0.00 | 124.698 | 46.733 | 0.012 | 280.5 | 280.6 | 279.8 | 250.3 |
| 27 | 457.20 | 15.00 | 0.00 | 124.840 | 43.062 | 0.012 | 280.8 | 280.6 | 279.9 | 252.3 |
| 28 | 457.20 | 20.00 | 0.00 | 124.949 | 39.023 | 0.012 | 280.8 | 280.6 | 279.9 | 254.4 |
| 29 | 457.20 | 25.00 | 0.00 | 125.057 | 34.779 | 0.013 | 280.7 | 280.6 | 279.9 | 256.7 |
| 30 | 457.20 | 30.00 | 0.00 | 125.152 | 30.827 | 0.013 | 280.7 | 280.6 | 279.9 | 258.9 |
| 31 | 457.20 | 35.00 | 0.00 | 125.126 | 26.682 | 0.015 | 280.8 | 280.6 | 280.0 | 261.4 |
| 32 | 457.20 | 40.00 | 0.00 | 124.983 | 23.314 | 0.014 | 280.7 | 280.5 | 280.0 | 263.5 |
| 33 | 457.20 | 45.00 | 0.00 | 124.708 | 20.196 | 0.017 | 280.7 | 280.6 | 279.9 | 265.3 |
| 34 | 457.20 | 50.00 | 0.00 | 124.561 | 17.084 | 0.014 | 280.7 | 280.6 | 279.9 | 267.4 |
| 35 | 457.20 | 55.00 | 0.00 | 124.435 | 14.020 | 0.014 | 280.7 | 280.6 | 279.9 | 269.4 |
| 36 | 457.20 | 60.00 | 0.00 | 124.462 | 11.309 | 0.017 | 280.8 | 280.5 | 279.9 | 271.3 |
| 37 | 457.20 | 65.00 | 0.00 | 124.582 | 8.816 | 0.017 | 280.9 | 280.5 | 279.9 | 273.1 |
| 38 | 457.20 | 70.00 | 0.00 | 124.654 | 6.888 | 0.014 | 281.0 | 280.5 | 280.0 | 274.6 |
| 39 | 457.20 | 75.00 | 0.00 | 124.739 | 5.197 | 0.017 | 280.8 | 280.5 | 280.0 | 275.9 |
| 40 | 457.20 | 80.00 | 0.00 | 124.893 | 3.996 | 0.020 | 280.7 | 280.5 | 280.0 | 276.8 |
| 41 | 457.20 | 85.00 | 0.00 | 124.954 | 2.626 | 0.020 | 280.6 | 280.5 | 279.9 | 277.8 |
| 42 | 457.20 | 90.00 | 0.00 | 124.923 | 1.832 | 0.021 | 280.6 | 280.5 | 279.8 | 278.3 |
| 43 | 457.20 | 95.00 | 0.00 | 124.761 | 1.120 | 0.014 | 280.8 | 280.5 | 279.8 | 278.9 |
| 44 | 457.20 | 100.00 | 0.00 | 124.650 | 0.638 | 0.019 | 280.7 | 280.5 | 279.8 | 279.3 |
| 45 | 457.20 | 105.00 | 0.00 | 124.614 | 0.366 | 0.019 | 280.8 | 280.5 | 279.8 | 279.5 |
| 46 | 457.20 | 110.00 | 0.00 | 124.689 | 0.166 | 0.018 | 280.8 | 280.5 | 279.8 | 279.7 |

File : TAB251T 4-JAN-89
4-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, Config VI(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.307 kPa

Mean gauged plenum pressure : 124.417 kPa
RMS gauged plenum pressure : 0.371 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.209 | 0.370 | 0.021 | 275.5 | 279.7 | 275.4 | 275.1 |
| 3 | 457.20 | -105.00 | 0.00 | 123.991 | 0.710 | 0.019 | 275.5 | 279.6 | 275.4 | 274.8 |
| 4 | 457.20 | -100.00 | 0.00 | 123.860 | 1.168 | 0.021 | 275.6 | 279.6 | 275.5 | 274.6 |
| 5 | 457.20 | -95.00 | 0.00 | 123.673 | 1.965 | 0.021 | 275.6 | 279.6 | 275.5 | 273.9 |
| 6 | 457.20 | -90.00 | 0.00 | 123.678 | 2.584 | 0.019 | 275.7 | 279.7 | 275.6 | 273.6 |
| 7 | 457.20 | -85.00 | 0.00 | 124.114 | 3.845 | 0.023 | 275.6 | 279.7 | 275.6 | 272.6 |
| 8 | 457.20 | -80.00 | 0.00 | 124.419 | 5.122 | 0.018 | 275.7 | 279.7 | 275.7 | 271.7 |
| 9 | 457.20 | -75.00 | 0.00 | 124.411 | 6.977 | 0.018 | 275.7 | 279.7 | 275.7 | 270.3 |
| 10 | 457.20 | -70.00 | 0.00 | 124.585 | 9.337 | 0.024 | 275.7 | 279.7 | 275.7 | 268.6 |
| 11 | 457.20 | -65.00 | 0.00 | 124.777 | 11.487 | 0.024 | 275.7 | 279.6 | 275.6 | 267.0 |
| 12 | 457.20 | -60.00 | 0.00 | 124.915 | 13.672 | 0.023 | 275.7 | 279.5 | 275.6 | 265.5 |
| 13 | 457.20 | -55.00 | 0.00 | 124.984 | 15.804 | 0.024 | 275.8 | 279.6 | 275.6 | 264.1 |
| 14 | 457.20 | -50.00 | 0.00 | 125.057 | 17.859 | 0.021 | 275.8 | 279.6 | 275.7 | 262.8 |
| 15 | 457.20 | -45.00 | 0.00 | 125.006 | 19.085 | 0.021 | 275.9 | 279.6 | 275.7 | 262.0 |
| 16 | 457.20 | -40.00 | 0.00 | 124.937 | 20.393 | 0.019 | 275.8 | 279.6 | 275.7 | 261.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 124.819 | 21.455 | 0.020 | 275.9 | 279.6 | 275.7 | 260.5 |
| 18 | 457.20 | -30.00 | 0.00 | 124.574 | 22.704 | 0.020 | 275.9 | 279.6 | 275.7 | 259.8 |
| 19 | 457.20 | -25.00 | 0.00 | 124.359 | 25.219 | 0.024 | 275.9 | 279.5 | 275.7 | 258.2 |
| 20 | 457.20 | -20.00 | 0.00 | 124.227 | 28.972 | 0.022 | 275.9 | 279.5 | 275.7 | 256.0 |
| 21 | 457.20 | -15.00 | 0.00 | 124.226 | 33.732 | 0.021 | 275.9 | 279.5 | 275.7 | 253.4 |
| 22 | 457.20 | -10.00 | 0.00 | 124.044 | 39.991 | 0.021 | 275.9 | 279.5 | 275.7 | 250.0 |
| 23 | 457.20 | -5.00 | 0.00 | 124.171 | 44.394 | 0.018 | 275.9 | 279.5 | 275.7 | 247.8 |
| 24 | 457.20 | 0.00 | 0.00 | 124.420 | 48.470 | 0.022 | 275.9 | 279.6 | 275.8 | 245.9 |
| 25 | 457.20 | 5.00 | 0.00 | 124.628 | 47.330 | 0.023 | 275.8 | 279.5 | 275.8 | 246.4 |
| 26 | 457.20 | 10.00 | 0.00 | 124.471 | 43.012 | 0.022 | 275.9 | 279.4 | 275.7 | 248.5 |
| 27 | 457.20 | 15.00 | 0.00 | 124.510 | 37.447 | 0.021 | 276.1 | 279.4 | 275.8 | 251.4 |
| 28 | 457.20 | 20.00 | 0.00 | 124.586 | 31.537 | 0.022 | 276.1 | 279.5 | 275.8 | 254.7 |
| 29 | 457.20 | 25.00 | 0.00 | 124.710 | 27.707 | 0.020 | 276.0 | 279.5 | 275.7 | 256.8 |
| 30 | 457.20 | 30.00 | 0.00 | 124.274 | 24.072 | 0.021 | 276.0 | 279.5 | 275.8 | 259.0 |
| 31 | 457.20 | 35.00 | 0.00 | 124.571 | 22.748 | 0.021 | 276.0 | 279.5 | 275.8 | 259.8 |
| 32 | 457.20 | 40.00 | 0.00 | 124.690 | 20.669 | 0.026 | 276.0 | 279.5 | 275.8 | 261.1 |
| 33 | 457.20 | 45.00 | 0.00 | 124.726 | 19.064 | 0.025 | 276.1 | 279.5 | 275.8 | 262.1 |
| 34 | 457.20 | 50.00 | 0.00 | 124.363 | 17.226 | 0.022 | 276.2 | 279.5 | 275.9 | 263.4 |
| 35 | 457.20 | 55.00 | 0.00 | 123.988 | 15.051 | 0.025 | 276.1 | 279.5 | 275.9 | 264.9 |
| 36 | 457.20 | 60.00 | 0.00 | 124.250 | 13.106 | 0.025 | 276.1 | 279.4 | 275.9 | 266.2 |
| 37 | 457.20 | 65.00 | 0.00 | 123.964 | 11.211 | 0.021 | 276.2 | 279.4 | 275.9 | 267.5 |
| 38 | 457.20 | 70.00 | 0.00 | 124.203 | 8.776 | 0.021 | 276.3 | 279.5 | 276.0 | 269.3 |
| 39 | 457.20 | 75.00 | 0.00 | 124.850 | 6.992 | 0.019 | 276.3 | 279.5 | 276.0 | 270.6 |
| 40 | 457.20 | 80.00 | 0.00 | 124.453 | 5.740 | 0.021 | 276.3 | 279.5 | 276.0 | 271.6 |
| 41 | 457.20 | 85.00 | 0.00 | 124.103 | 4.210 | 0.023 | 276.2 | 279.4 | 276.0 | 272.7 |
| 42 | 457.20 | 90.00 | 0.00 | 124.064 | 2.622 | 0.024 | 276.3 | 279.4 | 276.0 | 273.9 |
| 43 | 457.20 | 95.00 | 0.00 | 124.945 | 2.110 | 0.024 | 276.3 | 279.5 | 276.0 | 274.3 |
| 44 | 457.20 | 100.00 | 0.00 | 124.310 | 1.082 | 0.021 | 276.3 | 279.4 | 276.0 | 275.1 |
| 45 | 457.20 | 105.00 | 0.00 | 124.421 | 0.633 | 0.021 | 276.3 | 279.5 | 276.0 | 275.5 |
| 46 | 457.20 | 110.00 | 0.00 | 124.436 | 0.509 | 0.018 | 276.4 | 279.5 | 276.1 | 275.7 |

File : TAB250T 4-JAN-89
4-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, Config VI(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.273 kPa

Mean gauged plenum pressure : 124.446 kPa
RMS gauged plenum pressure : 0.490 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 122.954 | 2.252 | 0.031 | 275.0 | 278.9 | 275.5 | 273.7 |
| 3 | 457.20 | 0.00 | -58.00 | 124.298 | 2.560 | 0.043 | 275.1 | 279.1 | 275.5 | 273.5 |
| 4 | 457.20 | 0.00 | -56.00 | 124.816 | 3.218 | 0.048 | 275.0 | 279.3 | 275.5 | 273.0 |
| 5 | 457.20 | 0.00 | -54.00 | 124.800 | 3.893 | 0.052 | 275.0 | 279.3 | 275.4 | 272.4 |
| 6 | 457.20 | 0.00 | -52.00 | 125.284 | 4.798 | 0.056 | 275.0 | 279.5 | 275.4 | 271.7 |
| 7 | 457.20 | 0.00 | -50.00 | 124.930 | 5.461 | 0.059 | 275.0 | 279.6 | 275.4 | 271.2 |
| 8 | 457.20 | 0.00 | -48.00 | 124.590 | 6.325 | 0.057 | 275.1 | 279.6 | 275.4 | 270.5 |
| 9 | 457.20 | 0.00 | -46.00 | 124.836 | 7.411 | 0.057 | 275.0 | 279.6 | 275.4 | 269.7 |
| 10 | 457.20 | 0.00 | -44.00 | 124.766 | 8.575 | 0.063 | 275.1 | 279.6 | 275.3 | 268.8 |
| 11 | 457.20 | 0.00 | -42.00 | 124.432 | 10.078 | 0.067 | 275.1 | 279.6 | 275.3 | 267.7 |
| 12 | 457.20 | 0.00 | -40.00 | 123.997 | 11.332 | 0.065 | 275.0 | 279.7 | 275.3 | 266.8 |
| 13 | 457.20 | 0.00 | -38.00 | 123.651 | 12.807 | 0.070 | 275.0 | 279.8 | 275.3 | 265.8 |
| 14 | 457.20 | 0.00 | -36.00 | 124.423 | 14.838 | 0.069 | 274.9 | 279.8 | 275.3 | 264.4 |
| 15 | 457.20 | 0.00 | -34.00 | 124.209 | 16.609 | 0.067 | 275.0 | 279.8 | 275.3 | 263.3 |
| 16 | 457.20 | 0.00 | -32.00 | 124.398 | 18.356 | 0.075 | 275.0 | 279.8 | 275.2 | 262.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -30.00 | 124.692 | 20.876 | 0.079 | 275.0 | 279.7 | 275.2 | 260.4 |
| 18 | 457.20 | 0.00 | -28.00 | 124.905 | 23.146 | 0.077 | 275.0 | 279.7 | 275.3 | 259.1 |
| 19 | 457.20 | 0.00 | -26.00 | 125.241 | 25.525 | 0.076 | 275.1 | 279.7 | 275.3 | 257.7 |
| 20 | 457.20 | 0.00 | -24.00 | 124.489 | 28.066 | 0.075 | 275.1 | 279.7 | 275.3 | 256.2 |
| 21 | 457.20 | 0.00 | -22.00 | 124.581 | 30.534 | 0.064 | 275.2 | 279.7 | 275.3 | 254.8 |
| 22 | 457.20 | 0.00 | -20.00 | 124.546 | 33.090 | 0.064 | 275.1 | 279.7 | 275.2 | 253.2 |
| 23 | 457.20 | 0.00 | -18.00 | 124.402 | 35.217 | 0.058 | 275.2 | 279.7 | 275.3 | 252.2 |
| 24 | 457.20 | 0.00 | -16.00 | 124.223 | 38.333 | 0.057 | 275.2 | 279.7 | 275.2 | 250.4 |
| 25 | 457.20 | 0.00 | -14.00 | 124.152 | 40.456 | 0.057 | 275.3 | 279.8 | 275.3 | 249.4 |
| 26 | 457.20 | 0.00 | -12.00 | 123.959 | 43.031 | 0.055 | 275.2 | 279.7 | 275.4 | 248.2 |
| 27 | 457.20 | 0.00 | -10.00 | 123.912 | 44.487 | 0.049 | 275.1 | 279.7 | 275.4 | 247.5 |
| 28 | 457.20 | 0.00 | -8.00 | 123.872 | 46.094 | 0.050 | 275.2 | 279.8 | 275.4 | 246.7 |
| 29 | 457.20 | 0.00 | -6.00 | 123.827 | 47.031 | 0.051 | 275.2 | 279.7 | 275.3 | 246.1 |
| 30 | 457.20 | 0.00 | -4.00 | 123.846 | 48.734 | 0.046 | 275.2 | 279.7 | 275.3 | 245.3 |
| 31 | 457.20 | 0.00 | -2.00 | 124.336 | 48.584 | 0.043 | 275.3 | 279.7 | 275.4 | 245.5 |
| 32 | 457.20 | 0.00 | 0.00 | 124.692 | 49.217 | 0.042 | 275.3 | 279.8 | 275.4 | 245.2 |
| 33 | 457.20 | 0.00 | 2.00 | 124.734 | 48.478 | 0.034 | 275.3 | 279.7 | 275.3 | 245.4 |
| 34 | 457.20 | 0.00 | 4.00 | 124.703 | 47.711 | 0.032 | 275.3 | 279.8 | 275.4 | 245.9 |
| 35 | 457.20 | 0.00 | 6.00 | 124.775 | 45.540 | 0.032 | 275.3 | 279.7 | 275.3 | 246.8 |
| 36 | 457.20 | 0.00 | 8.00 | 124.757 | 43.939 | 0.027 | 275.3 | 279.7 | 275.3 | 247.6 |
| 37 | 457.20 | 0.00 | 10.00 | 124.764 | 42.256 | 0.023 | 275.4 | 279.7 | 275.3 | 248.5 |

File : TAB263T 16-JAN-89
16-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN, -14 DEG
CONFIG VI(B)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.544 kPa

Mean gauged plenum pressure : 124.830 kPa
*RMS gauged plenum pressure : 0.230 kPa*

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.689 | 0.358 | 0.040 | 276.1 | 278.9 | 276.5 | 276.2 |
| 3 | 457.20 | -105.00 | 0.00 | 124.323 | 0.690 | 0.038 | 276.1 | 279.1 | 276.4 | 275.8 |
| 4 | 457.20 | -100.00 | 0.00 | 124.607 | 1.206 | 0.037 | 276.1 | 279.2 | 276.4 | 275.4 |
| 5 | 457.20 | -95.00 | 0.00 | 124.882 | 1.551 | 0.043 | 276.1 | 279.3 | 276.4 | 275.2 |
| 6 | 457.20 | -90.00 | 0.00 | 124.993 | 2.000 | 0.044 | 276.0 | 279.3 | 276.3 | 274.7 |
| 7 | 457.20 | -85.00 | 0.00 | 124.822 | 2.856 | 0.052 | 276.0 | 279.5 | 276.3 | 274.0 |
| 8 | 457.20 | -80.00 | 0.00 | 124.949 | 4.099 | 0.055 | 276.0 | 279.5 | 276.3 | 273.1 |
| 9 | 457.20 | -75.00 | 0.00 | 125.190 | 6.004 | 0.055 | 275.9 | 279.5 | 276.2 | 271.6 |
| 10 | 457.20 | -70.00 | 0.00 | 125.144 | 8.368 | 0.061 | 275.9 | 279.5 | 276.2 | 269.8 |
| 11 | 457.20 | -65.00 | 0.00 | 125.204 | 8.606 | 0.065 | 275.9 | 279.6 | 276.2 | 269.7 |
| 12 | 457.20 | -60.00 | 0.00 | 125.068 | 11.072 | 0.065 | 275.9 | 279.6 | 276.1 | 267.8 |
| 13 | 457.20 | -55.00 | 0.00 | 124.856 | 13.299 | 0.067 | 275.9 | 279.6 | 276.2 | 266.4 |
| 14 | 457.20 | -50.00 | 0.00 | 124.639 | 13.887 | 0.071 | 275.9 | 279.6 | 276.1 | 265.9 |
| 15 | 457.20 | -45.00 | 0.00 | 125.005 | 15.321 | 0.073 | 275.9 | 279.6 | 276.1 | 264.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.651 | 16.625 | 0.079 | 275.8 | 279.6 | 276.1 | 264.0 |
| 17 | 457.20 | -35.00 | 0.00 | 125.161 | 18.328 | 0.071 | 275.8 | 279.6 | 276.0 | 262.8 |
| 18 | 457.20 | -30.00 | 0.00 | 124.707 | 20.024 | 0.071 | 275.8 | 279.5 | 276.0 | 261.8 |
| 19 | 457.20 | -25.00 | 0.00 | 125.138 | 23.345 | 0.075 | 275.8 | 279.5 | 276.0 | 259.7 |
| 20 | 457.20 | -20.00 | 0.00 | 125.018 | 28.148 | 0.074 | 275.8 | 279.5 | 276.0 | 256.8 |
| 21 | 457.20 | -15.00 | 0.00 | 124.878 | 34.594 | 0.071 | 275.8 | 279.5 | 276.0 | 253.2 |
| 22 | 457.20 | -10.00 | 0.00 | 125.025 | 41.205 | 0.062 | 275.8 | 279.6 | 276.0 | 249.7 |
| 23 | 457.20 | -5.00 | 0.00 | 124.838 | 47.616 | 0.064 | 275.8 | 279.5 | 275.9 | 246.4 |
| 24 | 457.20 | 0.00 | 0.00 | 124.676 | 49.043 | 0.066 | 275.8 | 279.6 | 276.0 | 245.8 |
| 25 | 457.20 | 5.00 | 0.00 | 124.819 | 46.718 | 0.063 | 275.9 | 279.5 | 276.0 | 247.0 |
| 26 | 457.20 | 10.00 | 0.00 | 124.754 | 40.795 | 0.057 | 275.8 | 279.5 | 276.0 | 249.9 |
| 27 | 457.20 | 15.00 | 0.00 | 124.838 | 33.496 | 0.056 | 275.8 | 279.5 | 275.9 | 253.7 |
| 28 | 457.20 | 20.00 | 0.00 | 124.890 | 27.487 | 0.057 | 275.8 | 279.5 | 275.9 | 257.1 |
| 29 | 457.20 | 25.00 | 0.00 | 124.884 | 22.148 | 0.053 | 275.8 | 279.5 | 275.9 | 260.3 |
| 30 | 457.20 | 30.00 | 0.00 | 125.047 | 18.760 | 0.047 | 275.7 | 279.5 | 275.9 | 262.5 |
| 31 | 457.20 | 35.00 | 0.00 | 124.606 | 16.078 | 0.050 | 275.7 | 279.5 | 275.9 | 264.2 |
| 32 | 457.20 | 40.00 | 0.00 | 124.672 | 13.914 | 0.046 | 275.7 | 279.5 | 275.9 | 265.7 |
| 33 | 457.20 | 45.00 | 0.00 | 124.707 | 12.528 | 0.044 | 275.7 | 279.5 | 275.8 | 266.5 |
| 34 | 457.20 | 50.00 | 0.00 | 124.671 | 10.538 | 0.038 | 275.8 | 279.5 | 275.9 | 268.0 |
| 35 | 457.20 | 55.00 | 0.00 | 124.881 | 10.070 | 0.041 | 275.7 | 279.5 | 275.9 | 268.3 |
| 36 | 457.20 | 60.00 | 0.00 | 124.625 | 7.624 | 0.036 | 275.7 | 279.5 | 275.9 | 270.1 |
| 37 | 457.20 | 65.00 | 0.00 | 124.854 | 6.031 | 0.038 | 275.7 | 279.5 | 275.8 | 271.1 |
| 38 | 457.20 | 70.00 | 0.00 | 124.629 | 4.915 | 0.033 | 275.7 | 279.4 | 275.9 | 272.1 |
| 39 | 457.20 | 75.00 | 0.00 | 124.677 | 3.603 | 0.032 | 275.7 | 279.5 | 275.8 | 273.0 |
| 40 | 457.20 | 80.00 | 0.00 | 124.625 | 2.979 | 0.028 | 275.7 | 279.4 | 275.8 | 273.5 |
| 41 | 457.20 | 85.00 | 0.00 | 124.577 | 2.310 | 0.029 | 275.7 | 279.4 | 275.8 | 274.0 |
| 42 | 457.20 | 90.00 | 0.00 | 124.696 | 1.473 | 0.019 | 275.7 | 279.5 | 275.8 | 274.6 |
| 43 | 457.20 | 95.00 | 0.00 | 125.057 | 0.686 | 0.021 | 275.7 | 279.4 | 275.8 | 275.3 |
| 44 | 457.20 | 100.00 | 0.00 | 124.815 | 0.595 | 0.025 | 275.8 | 279.4 | 275.8 | 275.3 |
| 45 | 457.20 | 105.00 | 0.00 | 124.624 | 0.281 | 0.020 | 275.8 | 279.4 | 275.9 | 275.7 |
| 46 | 457.20 | 110.00 | 0.00 | 124.931 | 0.031 | 0.018 | 275.7 | 279.4 | 275.8 | 275.8 |

File : TAB236T 16-DEC-88
16-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config VI(b), +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.171 kPa

Mean gauged plenum pressure : 125.049 kPa
RMS gauged plenum pressure : 0.602 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.345 | 0.228 | 0.012 | 280.6 | 280.0 | 279.6 | 279.4 |
| 3 | 457.20 | -105.00 | 0.00 | 125.400 | 0.354 | 0.012 | 280.4 | 280.1 | 279.6 | 279.3 |
| 4 | 457.20 | -100.00 | 0.00 | 125.412 | 0.508 | 0.012 | 280.4 | 280.2 | 279.7 | 279.3 |
| 5 | 457.20 | -95.00 | 0.00 | 125.273 | 1.095 | 0.012 | 280.5 | 280.2 | 279.7 | 278.8 |
| 6 | 457.20 | -90.00 | 0.00 | 125.829 | 1.295 | 0.012 | 280.4 | 280.2 | 279.8 | 278.8 |
| 7 | 457.20 | -85.00 | 0.00 | 125.784 | 2.332 | 0.012 | 280.3 | 280.3 | 279.8 | 277.9 |
| 8 | 457.20 | -80.00 | 0.00 | 125.711 | 3.422 | 0.012 | 280.3 | 280.4 | 279.8 | 277.1 |
| 9 | 457.20 | -75.00 | 0.00 | 125.502 | 4.958 | 0.012 | 280.3 | 280.4 | 279.7 | 275.8 |
| 10 | 457.20 | -70.00 | 0.00 | 125.247 | 5.971 | 0.012 | 280.4 | 280.4 | 279.8 | 275.1 |
| 11 | 457.20 | -65.00 | 0.00 | 125.183 | 8.768 | 0.012 | 280.3 | 280.4 | 279.7 | 272.9 |
| 12 | 457.20 | -60.00 | 0.00 | 125.194 | 11.217 | 0.012 | 280.4 | 280.4 | 279.7 | 271.2 |
| 13 | 457.20 | -55.00 | 0.00 | 125.180 | 13.716 | 0.012 | 280.2 | 280.4 | 279.7 | 269.4 |
| 14 | 457.20 | -50.00 | 0.00 | 125.195 | 16.435 | 0.012 | 280.3 | 280.4 | 279.8 | 267.7 |
| 15 | 457.20 | -45.00 | 0.00 | 125.364 | 18.851 | 0.012 | 280.2 | 280.4 | 279.7 | 266.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 125.551 | 21.110 | 0.012 | 280.0 | 280.3 | 279.6 | 264.4 |
| 17 | 457.20 | -35.00 | 0.00 | 125.703 | 23.477 | 0.011 | 280.1 | 280.3 | 279.6 | 262.9 |
| 18 | 457.20 | -30.00 | 0.00 | 125.855 | 25.394 | 0.012 | 280.2 | 280.4 | 279.6 | 261.8 |
| 19 | 457.20 | -25.00 | 0.00 | 125.894 | 28.183 | 0.012 | 280.2 | 280.4 | 279.6 | 260.1 |
| 20 | 457.20 | -20.00 | 0.00 | 125.740 | 31.621 | 0.011 | 280.1 | 280.4 | 279.5 | 258.0 |
| 21 | 457.20 | -15.00 | 0.00 | 125.758 | 36.042 | 0.011 | 280.0 | 280.4 | 279.5 | 255.6 |
| 22 | 457.20 | -10.00 | 0.00 | 125.484 | 41.143 | 0.012 | 279.8 | 280.3 | 279.4 | 252.7 |
| 23 | 457.20 | -5.00 | 0.00 | 125.419 | 45.570 | 0.012 | 279.7 | 280.3 | 279.3 | 250.4 |
| 24 | 457.20 | 0.00 | 0.00 | 125.255 | 46.752 | 0.012 | 279.7 | 280.3 | 279.3 | 249.8 |
| 25 | 457.20 | 5.00 | 0.00 | 125.219 | 45.491 | 0.011 | 279.8 | 280.3 | 279.3 | 250.4 |
| 26 | 457.20 | 10.00 | 0.00 | 125.074 | 41.897 | 0.012 | 279.7 | 280.3 | 279.3 | 252.3 |
| 27 | 457.20 | 15.00 | 0.00 | 124.962 | 37.562 | 0.012 | 279.7 | 280.3 | 279.3 | 254.5 |
| 28 | 457.20 | 20.00 | 0.00 | 125.354 | 33.297 | 0.012 | 279.6 | 280.3 | 279.2 | 256.8 |
| 29 | 457.20 | 25.00 | 0.00 | 125.447 | 30.206 | 0.011 | 279.7 | 280.3 | 279.2 | 258.6 |
| 30 | 457.20 | 30.00 | 0.00 | 125.527 | 27.369 | 0.012 | 279.6 | 280.3 | 279.2 | 260.2 |
| 31 | 457.20 | 35.00 | 0.00 | 125.625 | 25.582 | 0.012 | 279.7 | 280.3 | 279.2 | 261.3 |
| 32 | 457.20 | 40.00 | 0.00 | 124.223 | 23.159 | 0.012 | 279.8 | 280.3 | 279.2 | 262.8 |
| 33 | 457.20 | 45.00 | 0.00 | 124.080 | 21.083 | 0.011 | 279.8 | 280.3 | 279.2 | 264.1 |
| 34 | 457.20 | 50.00 | 0.00 | 124.154 | 18.204 | 0.012 | 279.8 | 280.3 | 279.3 | 266.0 |
| 35 | 457.20 | 55.00 | 0.00 | 124.099 | 15.585 | 0.012 | 279.7 | 280.2 | 279.2 | 267.7 |
| 36 | 457.20 | 60.00 | 0.00 | 123.875 | 13.235 | 0.012 | 279.5 | 280.2 | 279.1 | 269.2 |
| 37 | 457.20 | 65.00 | 0.00 | 123.915 | 10.357 | 0.012 | 279.6 | 280.3 | 279.1 | 271.2 |
| 38 | 457.20 | 70.00 | 0.00 | 124.030 | 8.621 | 0.012 | 279.4 | 280.2 | 279.1 | 272.5 |
| 39 | 457.20 | 75.00 | 0.00 | 124.202 | 7.045 | 0.011 | 279.6 | 280.2 | 279.1 | 273.6 |
| 40 | 457.20 | 80.00 | 0.00 | 124.407 | 5.234 | 0.011 | 279.6 | 280.2 | 279.1 | 275.0 |
| 41 | 457.20 | 85.00 | 0.00 | 124.506 | 3.520 | 0.011 | 279.6 | 280.3 | 279.1 | 276.3 |
| 42 | 457.20 | 90.00 | 0.00 | 124.543 | 2.250 | 0.011 | 279.5 | 280.2 | 279.1 | 277.3 |
| 43 | 457.20 | 95.00 | 0.00 | 124.608 | 2.077 | 0.011 | 279.6 | 280.2 | 279.0 | 277.3 |
| 44 | 457.20 | 100.00 | 0.00 | 124.568 | 0.951 | 0.012 | 279.5 | 280.2 | 279.0 | 278.2 |
| 45 | 457.20 | 105.00 | 0.00 | 124.545 | 0.620 | 0.011 | 279.5 | 280.2 | 279.0 | 278.5 |
| 46 | 457.20 | 110.00 | 0.00 | 124.532 | 0.351 | 0.011 | 279.5 | 280.2 | 279.0 | 278.7 |

File : TAB238T 2-JAN-89
2-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, Config VII(a)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.239 kPa

Mean gauged plenum pressure : 124.683 kPa
RMS gauged plenum pressure : 0.762 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 128.147 | 0.416 | 0.015 | 284.6 | 281.3 | 284.0 | 283.7 |
| 3 | 457.20 | -105.00 | 0.00 | 124.902 | 0.699 | 0.014 | 284.8 | 281.2 | 284.0 | 283.4 |
| 4 | 457.20 | -100.00 | 0.00 | 124.594 | 1.174 | 0.014 | 285.2 | 281.3 | 284.3 | 283.3 |
| 5 | 457.20 | -95.00 | 0.00 | 122.726 | 1.960 | 0.021 | 284.9 | 281.2 | 284.3 | 282.7 |
| 6 | 457.20 | -90.00 | 0.00 | 124.074 | 2.825 | 0.017 | 285.0 | 281.2 | 284.4 | 282.1 |
| 7 | 457.20 | -85.00 | 0.00 | 123.750 | 3.947 | 0.020 | 284.8 | 281.2 | 284.3 | 281.1 |
| 8 | 457.20 | -80.00 | 0.00 | 123.859 | 5.843 | 0.016 | 285.0 | 281.1 | 284.4 | 279.7 |
| 9 | 457.20 | -75.00 | 0.00 | 125.442 | 8.100 | 0.017 | 285.0 | 281.2 | 284.5 | 278.1 |
| 10 | 457.20 | -70.00 | 0.00 | 124.514 | 9.979 | 0.023 | 284.8 | 281.2 | 284.4 | 276.6 |
| 11 | 457.20 | -65.00 | 0.00 | 125.304 | 12.801 | 0.018 | 284.6 | 281.1 | 284.1 | 274.3 |
| 12 | 457.20 | -60.00 | 0.00 | 124.196 | 15.771 | 0.013 | 284.6 | 281.1 | 284.1 | 272.2 |
| 13 | 457.20 | -55.00 | 0.00 | 124.136 | 18.591 | 0.014 | 284.7 | 281.1 | 284.0 | 270.3 |
| 14 | 457.20 | -50.00 | 0.00 | 123.751 | 20.722 | 0.014 | 284.9 | 281.1 | 284.0 | 268.9 |
| 15 | 457.20 | -45.00 | 0.00 | 124.243 | 22.048 | 0.019 | 284.9 | 281.1 | 284.0 | 268.0 |
| 16 | 457.20 | -40.00 | 0.00 | 124.426 | 23.169 | 0.020 | 284.8 | 281.0 | 284.0 | 267.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 124.323 | 23.858 | 0.015 | 285.0 | 281.1 | 284.0 | 266.9 |
| 18 | 457.20 | -30.00 | 0.00 | 124.689 | 24.680 | 0.017 | 285.3 | 281.0 | 284.3 | 266.6 |
| 19 | 457.20 | -25.00 | 0.00 | 125.038 | 26.385 | 0.025 | 285.2 | 281.1 | 284.3 | 265.6 |
| 20 | 457.20 | -20.00 | 0.00 | 125.285 | 30.277 | 0.020 | 285.3 | 281.1 | 284.4 | 263.3 |
| 21 | 457.20 | -15.00 | 0.00 | 124.801 | 36.191 | 0.028 | 285.5 | 281.1 | 284.5 | 260.1 |
| 22 | 457.20 | -10.00 | 0.00 | 124.710 | 43.343 | 0.023 | 285.6 | 281.1 | 284.7 | 256.4 |
| 23 | 457.20 | -5.00 | 0.00 | 124.584 | 52.827 | 0.020 | 285.8 | 281.1 | 284.8 | 251.8 |
| 24 | 457.20 | 0.00 | 0.00 | 124.293 | 57.879 | 0.027 | 285.5 | 281.1 | 284.8 | 249.4 |
| 25 | 457.20 | 5.00 | 0.00 | 123.991 | 56.343 | 0.026 | 285.3 | 281.1 | 284.6 | 249.9 |
| 26 | 457.20 | 10.00 | 0.00 | 124.182 | 49.957 | 0.017 | 285.6 | 281.1 | 284.7 | 253.1 |
| 27 | 457.20 | 15.00 | 0.00 | 124.074 | 41.360 | 0.018 | 285.6 | 281.1 | 284.7 | 257.4 |
| 28 | 457.20 | 20.00 | 0.00 | 124.036 | 34.039 | 0.026 | 285.6 | 281.0 | 284.7 | 261.4 |
| 29 | 457.20 | 25.00 | 0.00 | 124.171 | 29.099 | 0.021 | 285.6 | 281.1 | 284.7 | 264.3 |
| 30 | 457.20 | 30.00 | 0.00 | 124.409 | 26.043 | 0.020 | 285.5 | 281.1 | 284.7 | 266.2 |
| 31 | 457.20 | 35.00 | 0.00 | 124.563 | 23.916 | 0.019 | 285.5 | 281.0 | 284.7 | 267.5 |
| 32 | 457.20 | 40.00 | 0.00 | 124.655 | 22.548 | 0.022 | 285.5 | 281.0 | 284.8 | 268.4 |
| 33 | 457.20 | 45.00 | 0.00 | 124.711 | 20.789 | 0.017 | 285.5 | 281.0 | 284.7 | 269.5 |
| 34 | 457.20 | 50.00 | 0.00 | 124.778 | 19.187 | 0.017 | 285.5 | 281.0 | 284.7 | 270.5 |
| 35 | 457.20 | 55.00 | 0.00 | 124.808 | 16.527 | 0.014 | 285.6 | 281.0 | 284.7 | 272.3 |
| 36 | 457.20 | 60.00 | 0.00 | 124.820 | 13.992 | 0.017 | 285.7 | 281.0 | 284.7 | 274.1 |
| 37 | 457.20 | 65.00 | 0.00 | 125.262 | 11.291 | 0.021 | 285.8 | 281.0 | 284.8 | 276.1 |
| 38 | 457.20 | 70.00 | 0.00 | 125.245 | 8.886 | 0.019 | 285.6 | 281.0 | 284.8 | 277.8 |
| 39 | 457.20 | 75.00 | 0.00 | 125.199 | 6.847 | 0.016 | 285.7 | 281.1 | 284.8 | 279.4 |
| 40 | 457.20 | 80.00 | 0.00 | 125.207 | 5.016 | 0.017 | 285.7 | 281.0 | 284.8 | 280.8 |
| 41 | 457.20 | 85.00 | 0.00 | 125.172 | 3.763 | 0.018 | 285.8 | 281.0 | 284.8 | 281.8 |
| 42 | 457.20 | 90.00 | 0.00 | 125.134 | 2.500 | 0.020 | 285.8 | 281.0 | 284.9 | 282.9 |
| 43 | 457.20 | 95.00 | 0.00 | 125.011 | 2.021 | 0.017 | 285.8 | 281.0 | 284.9 | 283.2 |
| 44 | 457.20 | 100.00 | 0.00 | 124.980 | 1.294 | 0.020 | 285.9 | 281.0 | 284.9 | 283.8 |
| 45 | 457.20 | 105.00 | 0.00 | 125.011 | 0.657 | 0.016 | 286.0 | 281.0 | 284.9 | 284.4 |
| 46 | 457.20 | 110.00 | 0.00 | 125.092 | 0.326 | 0.018 | 285.8 | 281.0 | 284.9 | 284.6 |

File : TAB237T 2-JAN-89
2-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, Config VII(a)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.273 kPa

Mean gauged plenum pressure : 124.313 kPa
RMS gauged plenum pressure : 0.759 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 124.739 | 1.331 | 0.010 | 284.9 | 281.3 | 283.9 | 282.8 |
| 3 | 457.20 | 0.00 | -58.00 | 125.434 | 1.579 | 0.011 | 284.9 | 281.4 | 284.0 | 282.7 |
| 4 | 457.20 | 0.00 | -56.00 | 125.010 | 1.963 | 0.011 | 285.0 | 281.5 | 284.0 | 282.4 |
| 5 | 457.20 | 0.00 | -54.00 | 124.450 | 2.596 | 0.011 | 284.8 | 281.4 | 284.0 | 281.9 |
| 6 | 457.20 | 0.00 | -52.00 | 123.909 | 3.209 | 0.011 | 284.7 | 281.4 | 284.0 | 281.4 |
| 7 | 457.20 | 0.00 | -50.00 | 122.586 | 3.909 | 0.011 | 284.6 | 281.3 | 284.0 | 280.8 |
| 8 | 457.20 | 0.00 | -48.00 | 124.158 | 5.006 | 0.011 | 284.5 | 281.3 | 283.8 | 279.8 |
| 9 | 457.20 | 0.00 | -46.00 | 124.563 | 5.785 | 0.011 | 284.4 | 281.4 | 283.8 | 279.2 |
| 10 | 457.20 | 0.00 | -44.00 | 124.630 | 7.258 | 0.011 | 284.5 | 281.4 | 283.9 | 278.2 |
| 11 | 457.20 | 0.00 | -42.00 | 125.484 | 8.410 | 0.011 | 284.6 | 281.4 | 283.9 | 277.3 |
| 12 | 457.20 | 0.00 | -40.00 | 125.611 | 10.240 | 0.011 | 284.4 | 281.3 | 283.9 | 276.0 |
| 13 | 457.20 | 0.00 | -38.00 | 125.260 | 11.763 | 0.011 | 284.4 | 281.3 | 283.9 | 274.9 |
| 14 | 457.20 | 0.00 | -36.00 | 124.505 | 13.455 | 0.011 | 284.5 | 281.3 | 283.9 | 273.7 |
| 15 | 457.20 | 0.00 | -34.00 | 123.707 | 15.550 | 0.011 | 284.6 | 281.3 | 283.9 | 272.2 |
| 16 | 457.20 | 0.00 | -32.00 | 123.132 | 17.768 | 0.011 | 284.6 | 281.4 | 283.9 | 270.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -30.00 | 122.873 | 20.111 | 0.011 | 284.4 | 281.4 | 283.8 | 269.1 |
| 18 | 457.20 | 0.00 | -28.00 | 124.282 | 22.881 | 0.011 | 284.5 | 281.3 | 283.8 | 267.3 |
| 19 | 457.20 | 0.00 | -26.00 | 123.774 | 25.571 | 0.011 | 284.6 | 281.4 | 283.9 | 265.7 |
| 20 | 457.20 | 0.00 | -24.00 | 124.271 | 28.499 | 0.011 | 284.7 | 281.3 | 283.9 | 263.9 |
| 21 | 457.20 | 0.00 | -22.00 | 124.616 | 32.046 | 0.011 | 284.7 | 281.3 | 283.9 | 261.9 |
| 22 | 457.20 | 0.00 | -20.00 | 124.678 | 35.501 | 0.012 | 284.7 | 281.3 | 283.9 | 259.9 |
| 23 | 457.20 | 0.00 | -18.00 | 124.713 | 38.306 | 0.011 | 284.8 | 281.3 | 284.0 | 258.4 |
| 24 | 457.20 | 0.00 | -16.00 | 124.642 | 41.979 | 0.012 | 284.7 | 281.3 | 284.0 | 256.5 |
| 25 | 457.20 | 0.00 | -14.00 | 124.369 | 45.047 | 0.012 | 284.5 | 281.2 | 283.9 | 254.8 |
| 26 | 457.20 | 0.00 | -12.00 | 124.069 | 48.116 | 0.012 | 284.6 | 281.2 | 283.9 | 253.3 |
| 27 | 457.20 | 0.00 | -10.00 | 123.844 | 50.909 | 0.012 | 284.6 | 281.2 | 283.9 | 251.9 |
| 28 | 457.20 | 0.00 | -8.00 | 123.695 | 53.573 | 0.012 | 284.6 | 281.2 | 283.9 | 250.6 |
| 29 | 457.20 | 0.00 | -6.00 | 124.459 | 55.652 | 0.012 | 284.7 | 281.3 | 283.9 | 249.7 |
| 30 | 457.20 | 0.00 | -4.00 | 124.629 | 57.344 | 0.012 | 284.8 | 281.2 | 284.0 | 249.0 |
| 31 | 457.20 | 0.00 | -2.00 | 124.498 | 58.026 | 0.013 | 284.7 | 281.2 | 284.0 | 248.6 |
| 32 | 457.20 | 0.00 | 0.00 | 123.900 | 57.467 | 0.013 | 284.7 | 281.2 | 284.0 | 248.9 |
| 33 | 457.20 | 0.00 | 2.00 | 124.335 | 57.368 | 0.013 | 284.7 | 281.2 | 284.0 | 248.9 |
| 34 | 457.20 | 0.00 | 4.00 | 124.514 | 56.390 | 0.016 | 284.6 | 281.2 | 284.0 | 249.4 |
| 35 | 457.20 | 0.00 | 6.00 | 124.569 | 54.797 | 0.014 | 284.7 | 281.3 | 284.0 | 250.1 |
| 36 | 457.20 | 0.00 | 8.00 | 124.446 | 52.745 | 0.014 | 284.8 | 281.2 | 284.1 | 251.2 |
| 37 | 457.20 | 0.00 | 10.00 | 124.430 | 49.721 | 0.015 | 284.8 | 281.2 | 284.1 | 252.7 |

File : TAB255T 12-JAN-89
12-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN, -14 DEG

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.341 kPa

Mean gauged plenum pressure : 124.921 kPa
RMS gauged plenum pressure : 0.370 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.296 | 0.412 | 0.016 | 284.7 | 281.2 | 284.4 | 284.1 |
| 3 | 457.20 | -105.00 | 0.00 | 124.555 | 0.484 | 0.025 | 284.8 | 281.2 | 284.6 | 284.2 |
| 4 | 457.20 | -100.00 | 0.00 | 124.676 | 0.771 | 0.021 | 284.8 | 281.2 | 284.6 | 284.0 |
| 5 | 457.20 | -95.00 | 0.00 | 124.588 | 1.655 | 0.019 | 284.8 | 281.2 | 284.6 | 283.2 |
| 6 | 457.20 | -90.00 | 0.00 | 124.507 | 2.322 | 0.018 | 284.7 | 281.2 | 284.6 | 282.7 |
| 7 | 457.20 | -85.00 | 0.00 | 124.512 | 3.631 | 0.018 | 284.6 | 281.2 | 284.5 | 281.6 |
| 8 | 457.20 | -80.00 | 0.00 | 125.719 | 5.129 | 0.019 | 284.6 | 281.2 | 284.5 | 280.4 |
| 9 | 457.20 | -75.00 | 0.00 | 125.595 | 7.117 | 0.020 | 284.6 | 281.3 | 284.3 | 278.7 |
| 10 | 457.20 | -70.00 | 0.00 | 125.091 | 9.585 | 0.024 | 284.5 | 281.2 | 283.4 | 276.0 |
| 11 | 457.20 | -65.00 | 0.00 | 125.155 | 10.712 | 0.022 | 284.5 | 281.2 | 281.7 | 273.5 |
| 12 | 457.20 | -60.00 | 0.00 | 124.883 | 14.303 | 0.018 | 284.5 | 281.2 | 282.3 | 271.5 |
| 13 | 457.20 | -55.00 | 0.00 | 124.669 | 16.141 | 0.022 | 284.5 | 281.2 | 282.9 | 270.9 |
| 14 | 457.20 | -50.00 | 0.00 | 124.515 | 18.214 | 0.024 | 284.5 | 281.2 | 282.8 | 269.4 |
| 15 | 457.20 | -45.00 | 0.00 | 124.597 | 19.340 | 0.023 | 284.4 | 281.2 | 284.1 | 269.9 |
| 16 | 457.20 | -40.00 | 0.00 | 124.438 | 21.000 | 0.023 | 284.4 | 281.2 | 284.2 | 268.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 124.710 | 21.859 | 0.024 | 284.4 | 281.2 | 284.2 | 268.3 |
| 18 | 457.20 | -30.00 | 0.00 | 125.101 | 23.528 | 0.022 | 284.4 | 281.2 | 283.4 | 266.5 |
| 19 | 457.20 | -25.00 | 0.00 | 125.391 | 25.837 | 0.018 | 284.3 | 281.1 | 283.7 | 265.4 |
| 20 | 457.20 | -20.00 | 0.00 | 125.196 | 29.893 | 0.027 | 284.4 | 281.1 | 282.8 | 262.1 |
| 21 | 457.20 | -15.00 | 0.00 | 125.357 | 36.023 | 0.024 | 284.4 | 281.2 | 278.6 | 254.8 |
| 22 | 457.20 | -10.00 | 0.00 | 125.361 | 44.987 | 0.022 | 284.4 | 281.2 | 279.4 | 250.8 |
| 23 | 457.20 | -5.00 | 0.00 | 125.191 | 53.917 | 0.019 | 284.3 | 281.2 | 278.3 | 245.5 |
| 24 | 457.20 | 0.00 | 0.00 | 124.981 | 58.739 | 0.019 | 284.3 | 281.2 | 283.5 | 247.9 |
| 25 | 457.20 | 5.00 | 0.00 | 124.798 | 56.819 | 0.020 | 284.3 | 281.2 | 284.0 | 249.2 |
| 26 | 457.20 | 10.00 | 0.00 | 124.674 | 49.862 | 0.024 | 284.4 | 281.2 | 279.2 | 248.2 |
| 27 | 457.20 | 15.00 | 0.00 | 124.577 | 40.791 | 0.026 | 284.3 | 281.2 | 281.6 | 255.0 |
| 28 | 457.20 | 20.00 | 0.00 | 124.550 | 33.593 | 0.023 | 284.4 | 281.2 | 282.3 | 259.5 |
| 29 | 457.20 | 25.00 | 0.00 | 124.620 | 28.261 | 0.020 | 284.4 | 281.2 | 284.1 | 264.3 |
| 30 | 457.20 | 30.00 | 0.00 | 125.076 | 24.561 | 0.020 | 284.3 | 281.2 | 284.0 | 266.4 |
| 31 | 457.20 | 35.00 | 0.00 | 125.352 | 21.827 | 0.021 | 284.4 | 281.2 | 284.2 | 268.3 |
| 32 | 457.20 | 40.00 | 0.00 | 125.195 | 19.319 | 0.020 | 284.3 | 281.2 | 284.2 | 270.0 |
| 33 | 457.20 | 45.00 | 0.00 | 125.169 | 16.759 | 0.019 | 284.3 | 281.2 | 284.3 | 271.8 |
| 34 | 457.20 | 50.00 | 0.00 | 125.155 | 14.112 | 0.020 | 284.3 | 281.2 | 284.3 | 273.6 |
| 35 | 457.20 | 55.00 | 0.00 | 125.047 | 11.809 | 0.023 | 284.3 | 281.2 | 284.3 | 275.2 |
| 36 | 457.20 | 60.00 | 0.00 | 124.833 | 9.612 | 0.020 | 284.3 | 281.2 | 284.3 | 276.8 |
| 37 | 457.20 | 65.00 | 0.00 | 124.648 | 7.110 | 0.019 | 284.3 | 281.2 | 284.3 | 278.7 |
| 38 | 457.20 | 70.00 | 0.00 | 124.477 | 5.754 | 0.019 | 284.3 | 281.2 | 284.2 | 279.6 |
| 39 | 457.20 | 75.00 | 0.00 | 124.323 | 4.646 | 0.018 | 284.3 | 281.2 | 284.3 | 280.6 |
| 40 | 457.20 | 80.00 | 0.00 | 124.493 | 3.649 | 0.017 | 284.3 | 281.3 | 284.3 | 281.4 |
| 41 | 457.20 | 85.00 | 0.00 | 124.740 | 2.274 | 0.015 | 284.3 | 281.3 | 284.2 | 282.3 |
| 42 | 457.20 | 90.00 | 0.00 | 125.144 | 1.516 | 0.014 | 284.3 | 281.3 | 284.2 | 283.0 |
| 43 | 457.20 | 95.00 | 0.00 | 125.308 | 0.864 | 0.014 | 284.3 | 281.2 | 284.2 | 283.5 |
| 44 | 457.20 | 100.00 | 0.00 | 125.323 | 0.599 | 0.013 | 284.2 | 281.3 | 284.2 | 283.7 |
| 45 | 457.20 | 105.00 | 0.00 | 125.283 | 0.353 | 0.013 | 284.2 | 281.3 | 284.2 | 283.9 |
| 46 | 457.20 | 110.00 | 0.00 | 125.297 | 0.100 | 0.012 | 284.2 | 281.3 | 284.2 | 284.1 |

File : TAB233T 16-DEC-88
16-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN
Config VII(a), +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.578 kPa

Mean gauged plenum pressure : 124.399 kPa
RMS gauged plenum pressure : 0.452 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.312 | 0.255 | 0.011 | 278.0 | 280.1 | 277.2 | 277.0 |
| 3 | 457.20 | -105.00 | 0.00 | 124.258 | 0.434 | 0.010 | 278.0 | 280.2 | 277.3 | 277.0 |
| 4 | 457.20 | -100.00 | 0.00 | 124.100 | 0.905 | 0.011 | 278.0 | 280.2 | 277.5 | 276.8 |
| 5 | 457.20 | -95.00 | 0.00 | 125.431 | 1.113 | 0.011 | 278.0 | 280.2 | 277.5 | 276.6 |
| 6 | 457.20 | -90.00 | 0.00 | 124.555 | 1.732 | 0.010 | 278.0 | 280.2 | 277.5 | 276.1 |
| 7 | 457.20 | -85.00 | 0.00 | 124.381 | 2.874 | 0.011 | 277.9 | 280.3 | 277.5 | 275.2 |
| 8 | 457.20 | -80.00 | 0.00 | 124.228 | 3.790 | 0.010 | 278.2 | 280.3 | 277.6 | 274.6 |
| 9 | 457.20 | -75.00 | 0.00 | 124.009 | 4.864 | 0.010 | 278.3 | 280.3 | 277.7 | 273.9 |
| 10 | 457.20 | -70.00 | 0.00 | 123.904 | 6.948 | 0.011 | 278.3 | 280.4 | 277.7 | 272.3 |
| 11 | 457.20 | -65.00 | 0.00 | 123.864 | 8.348 | 0.011 | 278.2 | 280.3 | 277.7 | 271.3 |
| 12 | 457.20 | -60.00 | 0.00 | 123.913 | 11.766 | 0.011 | 278.2 | 280.4 | 277.6 | 268.8 |
| 13 | 457.20 | -55.00 | 0.00 | 123.934 | 12.874 | 0.011 | 278.4 | 280.4 | 277.7 | 268.1 |
| 14 | 457.20 | -50.00 | 0.00 | 124.141 | 15.710 | 0.011 | 278.4 | 280.4 | 277.8 | 266.3 |
| 15 | 457.20 | -45.00 | 0.00 | 124.605 | 17.493 | 0.011 | 278.4 | 280.4 | 277.8 | 265.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.864 | 19.147 | 0.011 | 278.4 | 280.4 | 277.7 | 263.9 |
| 17 | 457.20 | -35.00 | 0.00 | 124.989 | 20.871 | 0.011 | 278.5 | 280.4 | 277.7 | 262.8 |
| 18 | 457.20 | -30.00 | 0.00 | 125.239 | 21.698 | 0.011 | 278.3 | 280.5 | 277.6 | 262.2 |
| 19 | 457.20 | -25.00 | 0.00 | 125.223 | 25.366 | 0.011 | 278.2 | 280.3 | 277.6 | 260.0 |
| 20 | 457.20 | -20.00 | 0.00 | 124.607 | 29.737 | 0.011 | 278.3 | 280.3 | 277.7 | 257.5 |
| 21 | 457.20 | -15.00 | 0.00 | 124.365 | 35.683 | 0.011 | 278.1 | 280.3 | 277.6 | 254.1 |
| 22 | 457.20 | -10.00 | 0.00 | 123.810 | 44.116 | 0.011 | 278.2 | 280.3 | 277.6 | 249.7 |
| 23 | 457.20 | -5.00 | 0.00 | 123.825 | 52.300 | 0.011 | 278.2 | 280.3 | 277.6 | 245.7 |
| 24 | 457.20 | 0.00 | 0.00 | 124.346 | 58.282 | 0.011 | 278.1 | 280.3 | 277.6 | 243.0 |
| 25 | 457.20 | 5.00 | 0.00 | 124.414 | 58.102 | 0.011 | 278.3 | 280.3 | 277.6 | 243.1 |
| 26 | 457.20 | 10.00 | 0.00 | 124.388 | 52.278 | 0.011 | 278.2 | 280.2 | 277.6 | 245.7 |
| 27 | 457.20 | 15.00 | 0.00 | 124.329 | 43.428 | 0.011 | 278.2 | 280.2 | 277.6 | 250.0 |
| 28 | 457.20 | 20.00 | 0.00 | 124.270 | 35.514 | 0.012 | 278.2 | 280.2 | 277.6 | 254.2 |
| 29 | 457.20 | 25.00 | 0.00 | 124.110 | 30.191 | 0.011 | 278.2 | 280.2 | 277.6 | 257.1 |
| 30 | 457.20 | 30.00 | 0.00 | 124.311 | 25.515 | 0.012 | 278.2 | 280.2 | 277.6 | 259.9 |
| 31 | 457.20 | 35.00 | 0.00 | 124.484 | 22.728 | 0.012 | 278.1 | 280.2 | 277.5 | 261.5 |
| 32 | 457.20 | 40.00 | 0.00 | 124.596 | 20.703 | 0.012 | 278.3 | 280.2 | 277.6 | 262.9 |
| 33 | 457.20 | 45.00 | 0.00 | 124.800 | 19.187 | 0.012 | 278.2 | 280.2 | 277.6 | 263.8 |
| 34 | 457.20 | 50.00 | 0.00 | 124.672 | 17.411 | 0.012 | 278.1 | 280.2 | 277.5 | 264.9 |
| 35 | 457.20 | 55.00 | 0.00 | 124.428 | 15.281 | 0.013 | 278.2 | 280.2 | 277.4 | 266.2 |
| 36 | 457.20 | 60.00 | 0.00 | 124.395 | 13.671 | 0.013 | 278.4 | 280.2 | 277.6 | 267.5 |
| 37 | 457.20 | 65.00 | 0.00 | 124.435 | 11.174 | 0.015 | 278.5 | 280.2 | 277.6 | 269.2 |
| 38 | 457.20 | 70.00 | 0.00 | 124.465 | 9.402 | 0.021 | 278.5 | 280.3 | 277.7 | 270.6 |
| 39 | 457.20 | 75.00 | 0.00 | 124.747 | 6.887 | 0.018 | 278.6 | 280.3 | 277.7 | 272.4 |
| 40 | 457.20 | 80.00 | 0.00 | 124.758 | 5.632 | 0.020 | 278.7 | 280.3 | 277.7 | 273.3 |
| 41 | 457.20 | 85.00 | 0.00 | 124.699 | 4.061 | 0.022 | 278.7 | 280.3 | 277.8 | 274.6 |
| 42 | 457.20 | 90.00 | 0.00 | 124.661 | 2.965 | 0.021 | 278.8 | 280.3 | 277.9 | 275.6 |
| 43 | 457.20 | 95.00 | 0.00 | 124.696 | 1.940 | 0.020 | 278.9 | 280.3 | 277.9 | 276.4 |
| 44 | 457.20 | 100.00 | 0.00 | 124.559 | 1.324 | 0.021 | 279.0 | 280.3 | 278.0 | 276.9 |
| 45 | 457.20 | 105.00 | 0.00 | 123.729 | 0.846 | 0.023 | 279.0 | 280.3 | 278.0 | 277.3 |
| 46 | 457.20 | 110.00 | 0.00 | 123.682 | 0.333 | 0.025 | 279.0 | 280.2 | 278.1 | 277.8 |

File : TAB247T

3-JAN-89
3-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, Config VII(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.122 kPa

Mean gauged plenum pressure : 123.318 kPa
RMS gauged plenum pressure : 0.331 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 123.590 | 0.559 | 0.016 | 287.1 | 281.1 | 286.9 | 286.4 |
| 3 | 457.20 | -105.00 | 0.00 | 123.598 | 0.918 | 0.015 | 287.1 | 281.1 | 287.0 | 286.2 |
| 4 | 457.20 | -100.00 | 0.00 | 123.559 | 1.477 | 0.014 | 287.0 | 281.1 | 287.0 | 285.8 |
| 5 | 457.20 | -95.00 | 0.00 | 123.549 | 2.645 | 0.013 | 287.0 | 281.1 | 286.9 | 284.7 |
| 6 | 457.20 | -90.00 | 0.00 | 123.555 | 3.691 | 0.014 | 287.0 | 281.1 | 287.0 | 284.0 |
| 7 | 457.20 | -85.00 | 0.00 | 123.438 | 5.200 | 0.015 | 287.0 | 281.1 | 287.0 | 282.7 |
| 8 | 457.20 | -80.00 | 0.00 | 123.449 | 7.129 | 0.017 | 287.0 | 281.1 | 286.9 | 281.1 |
| 9 | 457.20 | -75.00 | 0.00 | 123.430 | 9.346 | 0.013 | 287.0 | 281.2 | 287.0 | 279.6 |
| 10 | 457.20 | -70.00 | 0.00 | 123.220 | 11.365 | 0.017 | 287.0 | 281.1 | 286.9 | 278.0 |
| 11 | 457.20 | -65.00 | 0.00 | 123.248 | 14.111 | 0.015 | 287.0 | 281.1 | 286.9 | 276.0 |
| 12 | 457.20 | -60.00 | 0.00 | 123.630 | 16.659 | 0.016 | 286.9 | 281.1 | 286.9 | 274.2 |
| 13 | 457.20 | -55.00 | 0.00 | 123.959 | 18.666 | 0.017 | 286.9 | 281.1 | 286.8 | 272.7 |
| 14 | 457.20 | -50.00 | 0.00 | 123.226 | 19.727 | 0.017 | 286.9 | 281.1 | 286.8 | 272.0 |
| 15 | 457.20 | -45.00 | 0.00 | 123.642 | 20.027 | 0.015 | 286.9 | 281.1 | 286.9 | 271.9 |
| 16 | 457.20 | -40.00 | 0.00 | 123.870 | 20.044 | 0.015 | 286.9 | 281.1 | 286.9 | 271.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 123.940 | 19.836 | 0.016 | 286.9 | 281.1 | 286.9 | 272.0 |
| 18 | 457.20 | -30.00 | 0.00 | 123.843 | 20.297 | 0.014 | 286.9 | 281.0 | 286.9 | 271.7 |
| 19 | 457.20 | -25.00 | 0.00 | 123.444 | 21.476 | 0.015 | 286.9 | 281.1 | 286.8 | 270.9 |
| 20 | 457.20 | -20.00 | 0.00 | 123.105 | 24.399 | 0.013 | 286.9 | 281.0 | 286.8 | 269.0 |
| 21 | 457.20 | -15.00 | 0.00 | 122.914 | 28.569 | 0.014 | 286.9 | 281.0 | 286.7 | 266.3 |
| 22 | 457.20 | -10.00 | 0.00 | 123.039 | 35.452 | 0.016 | 286.9 | 281.1 | 286.8 | 262.3 |
| 23 | 457.20 | -5.00 | 0.00 | 122.952 | 40.826 | 0.014 | 286.9 | 281.1 | 286.7 | 259.3 |
| 24 | 457.20 | 0.00 | 0.00 | 122.967 | 44.564 | 0.017 | 286.9 | 281.1 | 286.7 | 257.3 |
| 25 | 457.20 | 5.00 | 0.00 | 123.134 | 43.101 | 0.016 | 286.9 | 281.1 | 286.2 | 257.6 |
| 26 | 457.20 | 10.00 | 0.00 | 123.447 | 37.845 | 0.015 | 286.9 | 281.1 | 286.5 | 260.7 |
| 27 | 457.20 | 15.00 | 0.00 | 123.776 | 31.679 | 0.016 | 286.9 | 281.1 | 286.5 | 264.3 |
| 28 | 457.20 | 20.00 | 0.00 | 122.725 | 25.900 | 0.013 | 286.9 | 281.1 | 286.7 | 267.9 |
| 29 | 457.20 | 25.00 | 0.00 | 122.817 | 22.334 | 0.017 | 286.9 | 281.1 | 286.6 | 270.1 |
| 30 | 457.20 | 30.00 | 0.00 | 123.098 | 20.085 | 0.013 | 286.9 | 281.1 | 286.8 | 271.8 |
| 31 | 457.20 | 35.00 | 0.00 | 122.970 | 19.196 | 0.013 | 286.9 | 281.0 | 286.8 | 272.4 |
| 32 | 457.20 | 40.00 | 0.00 | 123.005 | 18.772 | 0.014 | 286.9 | 281.0 | 286.8 | 272.7 |
| 33 | 457.20 | 45.00 | 0.00 | 122.988 | 18.204 | 0.013 | 287.1 | 281.0 | 286.8 | 273.0 |
| 34 | 457.20 | 50.00 | 0.00 | 122.941 | 17.571 | 0.014 | 286.9 | 281.0 | 286.8 | 273.5 |
| 35 | 457.20 | 55.00 | 0.00 | 123.036 | 16.099 | 0.013 | 286.9 | 281.0 | 286.8 | 274.5 |
| 36 | 457.20 | 60.00 | 0.00 | 123.057 | 14.290 | 0.013 | 286.9 | 281.0 | 286.8 | 275.7 |
| 37 | 457.20 | 65.00 | 0.00 | 123.025 | 12.062 | 0.014 | 286.8 | 281.0 | 286.8 | 277.3 |
| 38 | 457.20 | 70.00 | 0.00 | 123.097 | 9.949 | 0.013 | 286.8 | 281.0 | 286.8 | 278.9 |
| 39 | 457.20 | 75.00 | 0.00 | 123.289 | 8.067 | 0.013 | 286.9 | 281.0 | 286.8 | 280.3 |
| 40 | 457.20 | 80.00 | 0.00 | 123.509 | 6.381 | 0.012 | 286.8 | 281.0 | 286.7 | 281.5 |
| 41 | 457.20 | 85.00 | 0.00 | 123.684 | 4.693 | 0.013 | 286.8 | 281.0 | 286.7 | 282.9 |
| 42 | 457.20 | 90.00 | 0.00 | 123.399 | 3.190 | 0.013 | 286.8 | 281.0 | 286.7 | 284.1 |
| 43 | 457.20 | 95.00 | 0.00 | 123.445 | 2.219 | 0.013 | 286.7 | 281.0 | 286.7 | 284.9 |
| 44 | 457.20 | 100.00 | 0.00 | 123.520 | 1.467 | 0.012 | 286.8 | 280.9 | 286.7 | 285.5 |
| 45 | 457.20 | 105.00 | 0.00 | 122.991 | 0.901 | 0.013 | 286.7 | 281.0 | 286.7 | 285.9 |
| 46 | 457.20 | 110.00 | 0.00 | 122.973 | 0.526 | 0.013 | 286.7 | 280.9 | 286.7 | 286.3 |

File : TAB246T

3-JAN-89
3-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, Config VII(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.156 kPa

Mean gauged plenum pressure : 123.362 kPa
RMS gauged plenum pressure : 0.243 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 123.098 | 3.198 | 0.012 | 286.7 | 281.4 | 286.5 | 283.9 |
| 3 | 457.20 | 0.00 | -58.00 | 123.103 | 3.571 | 0.012 | 286.7 | 281.3 | 286.5 | 283.6 |
| 4 | 457.20 | 0.00 | -56.00 | 123.663 | 4.368 | 0.012 | 286.7 | 281.3 | 286.5 | 282.9 |
| 5 | 457.20 | 0.00 | -54.00 | 123.286 | 5.191 | 0.012 | 286.7 | 281.4 | 286.5 | 282.3 |
| 6 | 457.20 | 0.00 | -52.00 | 123.584 | 5.961 | 0.012 | 286.7 | 281.3 | 286.5 | 281.7 |
| 7 | 457.20 | 0.00 | -50.00 | 123.203 | 6.878 | 0.013 | 286.8 | 281.4 | 286.6 | 281.0 |
| 8 | 457.20 | 0.00 | -48.00 | 123.011 | 7.985 | 0.012 | 286.8 | 281.3 | 286.6 | 280.2 |
| 9 | 457.20 | 0.00 | -46.00 | 123.202 | 9.379 | 0.012 | 286.8 | 281.3 | 286.6 | 279.1 |
| 10 | 457.20 | 0.00 | -44.00 | 123.951 | 10.719 | 0.012 | 286.9 | 281.3 | 286.7 | 278.2 |
| 11 | 457.20 | 0.00 | -42.00 | 123.716 | 12.406 | 0.013 | 286.9 | 281.3 | 286.7 | 277.0 |
| 12 | 457.20 | 0.00 | -40.00 | 123.547 | 13.625 | 0.013 | 287.0 | 281.3 | 286.8 | 276.2 |
| 13 | 457.20 | 0.00 | -38.00 | 123.476 | 15.203 | 0.013 | 287.0 | 281.3 | 286.8 | 275.1 |
| 14 | 457.20 | 0.00 | -36.00 | 123.489 | 16.872 | 0.013 | 287.0 | 281.4 | 286.8 | 273.9 |
| 15 | 457.20 | 0.00 | -34.00 | 123.744 | 18.943 | 0.012 | 287.1 | 281.4 | 286.8 | 272.5 |
| 16 | 457.20 | 0.00 | -32.00 | 123.123 | 20.535 | 0.013 | 287.1 | 281.3 | 286.9 | 271.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -30.00 | 123.161 | 22.079 | 0.012 | 287.1 | 281.4 | 286.9 | 270.6 |
| 18 | 457.20 | 0.00 | -28.00 | 123.241 | 24.549 | 0.012 | 287.1 | 281.4 | 286.9 | 269.0 |
| 19 | 457.20 | 0.00 | -26.00 | 123.308 | 26.424 | 0.012 | 287.1 | 281.4 | 286.9 | 267.8 |
| 20 | 457.20 | 0.00 | -24.00 | 123.348 | 28.436 | 0.012 | 287.2 | 281.4 | 287.0 | 266.7 |
| 21 | 457.20 | 0.00 | -22.00 | 123.317 | 30.511 | 0.012 | 287.1 | 281.3 | 287.0 | 265.4 |
| 22 | 457.20 | 0.00 | -20.00 | 123.177 | 32.121 | 0.012 | 287.1 | 281.3 | 287.0 | 264.5 |
| 23 | 457.20 | 0.00 | -18.00 | 123.035 | 33.967 | 0.012 | 287.1 | 281.3 | 286.9 | 263.3 |
| 24 | 457.20 | 0.00 | -16.00 | 122.904 | 35.840 | 0.012 | 287.1 | 281.3 | 286.9 | 262.2 |
| 25 | 457.20 | 0.00 | -14.00 | 123.307 | 37.691 | 0.013 | 287.1 | 281.2 | 287.0 | 261.3 |
| 26 | 457.20 | 0.00 | -12.00 | 123.268 | 39.123 | 0.012 | 287.1 | 281.3 | 286.9 | 260.4 |
| 27 | 457.20 | 0.00 | -10.00 | 123.233 | 40.932 | 0.012 | 287.2 | 281.3 | 286.8 | 259.3 |
| 28 | 457.20 | 0.00 | -8.00 | 123.193 | 42.161 | 0.013 | 287.1 | 281.2 | 286.4 | 258.3 |
| 29 | 457.20 | 0.00 | -6.00 | 123.198 | 43.022 | 0.014 | 287.1 | 281.3 | 286.7 | 258.1 |
| 30 | 457.20 | 0.00 | -4.00 | 123.274 | 44.032 | 0.013 | 287.2 | 281.2 | 286.9 | 257.8 |
| 31 | 457.20 | 0.00 | -2.00 | 123.413 | 44.381 | 0.012 | 287.1 | 281.2 | 286.7 | 257.4 |
| 32 | 457.20 | 0.00 | 0.00 | 123.487 | 44.936 | 0.013 | 287.1 | 281.2 | 286.6 | 257.0 |
| 33 | 457.20 | 0.00 | 2.00 | 123.563 | 44.874 | 0.012 | 287.1 | 281.2 | 286.3 | 256.8 |
| 34 | 457.20 | 0.00 | 4.00 | 123.550 | 44.666 | 0.013 | 287.0 | 281.2 | 286.3 | 256.9 |
| 35 | 457.20 | 0.00 | 6.00 | 123.601 | 44.044 | 0.014 | 287.1 | 281.2 | 286.4 | 257.3 |
| 36 | 457.20 | 0.00 | 8.00 | 123.609 | 43.322 | 0.014 | 287.0 | 281.2 | 286.6 | 257.9 |
| 37 | 457.20 | 0.00 | 10.00 | 123.588 | 41.879 | 0.015 | 287.1 | 281.2 | 286.6 | 258.6 |

File : TAB262T 13-JAN-89
13-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN, -14 DEG
CONFIG VII(B)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.849 kPa

Mean gauged plenum pressure : 125.319 kPa
RMS gauged plenum pressure : 0.404 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.015 | 0.420 | 0.033 | 281.8 | 280.6 | 281.7 | 281.4 |
| 3 | 457.20 | -105.00 | 0.00 | 125.399 | 0.805 | 0.032 | 281.8 | 280.7 | 281.7 | 281.0 |
| 4 | 457.20 | -100.00 | 0.00 | 125.507 | 1.359 | 0.032 | 281.9 | 280.7 | 281.7 | 280.6 |
| 5 | 457.20 | -95.00 | 0.00 | 125.244 | 1.833 | 0.030 | 282.0 | 280.8 | 281.8 | 280.3 |
| 6 | 457.20 | -90.00 | 0.00 | 125.435 | 2.891 | 0.027 | 282.1 | 280.7 | 281.8 | 279.5 |
| 7 | 457.20 | -85.00 | 0.00 | 125.328 | 4.008 | 0.036 | 282.1 | 280.7 | 281.9 | 278.7 |
| 8 | 457.20 | -80.00 | 0.00 | 125.117 | 5.729 | 0.033 | 282.1 | 280.7 | 281.9 | 277.4 |
| 9 | 457.20 | -75.00 | 0.00 | 125.260 | 6.884 | 0.034 | 282.0 | 280.7 | 282.0 | 276.6 |
| 10 | 457.20 | -70.00 | 0.00 | 125.273 | 9.518 | 0.031 | 282.1 | 280.7 | 281.9 | 274.6 |
| 11 | 457.20 | -65.00 | 0.00 | 126.255 | 10.594 | 0.032 | 282.1 | 280.7 | 282.0 | 273.9 |
| 12 | 457.20 | -60.00 | 0.00 | 125.531 | 13.301 | 0.037 | 282.0 | 280.8 | 282.0 | 272.0 |
| 13 | 457.20 | -55.00 | 0.00 | 125.052 | 14.962 | 0.033 | 282.1 | 280.7 | 281.9 | 270.8 |
| 14 | 457.20 | -50.00 | 0.00 | 125.101 | 16.873 | 0.033 | 282.1 | 280.7 | 282.0 | 269.6 |
| 15 | 457.20 | -45.00 | 0.00 | 125.333 | 16.924 | 0.032 | 282.2 | 280.7 | 282.0 | 269.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 125.159 | 17.562 | 0.033 | 282.3 | 280.7 | 282.0 | 269.1 |
| 17 | 457.20 | -35.00 | 0.00 | 125.210 | 18.035 | 0.029 | 282.3 | 280.7 | 282.0 | 268.8 |
| 18 | 457.20 | -30.00 | 0.00 | 125.331 | 19.208 | 0.032 | 282.3 | 280.7 | 282.0 | 268.0 |
| 19 | 457.20 | -25.00 | 0.00 | 126.066 | 21.160 | 0.031 | 282.4 | 280.8 | 282.0 | 266.8 |
| 20 | 457.20 | -20.00 | 0.00 | 125.181 | 24.982 | 0.029 | 282.4 | 280.8 | 282.0 | 264.4 |
| 21 | 457.20 | -15.00 | 0.00 | 125.277 | 30.675 | 0.027 | 282.5 | 280.8 | 282.1 | 261.1 |
| 22 | 457.20 | -10.00 | 0.00 | 124.975 | 36.641 | 0.028 | 282.6 | 280.8 | 282.1 | 257.7 |
| 23 | 457.20 | -5.00 | 0.00 | 125.627 | 42.949 | 0.028 | 282.7 | 280.8 | 282.2 | 254.5 |
| 24 | 457.20 | 0.00 | 0.00 | 125.204 | 45.796 | 0.026 | 282.7 | 280.8 | 282.2 | 253.0 |
| 25 | 457.20 | 5.00 | 0.00 | 125.117 | 44.203 | 0.025 | 282.7 | 280.7 | 282.3 | 253.9 |
| 26 | 457.20 | 10.00 | 0.00 | 125.873 | 38.912 | 0.023 | 282.7 | 280.7 | 282.3 | 256.7 |
| 27 | 457.20 | 15.00 | 0.00 | 125.601 | 31.949 | 0.022 | 282.7 | 280.8 | 282.3 | 260.5 |
| 28 | 457.20 | 20.00 | 0.00 | 125.374 | 26.292 | 0.028 | 282.5 | 280.8 | 282.2 | 263.8 |
| 29 | 457.20 | 25.00 | 0.00 | 125.181 | 22.148 | 0.021 | 282.3 | 280.8 | 282.1 | 266.2 |
| 30 | 457.20 | 30.00 | 0.00 | 125.074 | 19.317 | 0.018 | 282.2 | 280.7 | 282.1 | 268.0 |
| 31 | 457.20 | 35.00 | 0.00 | 125.162 | 17.382 | 0.015 | 282.4 | 280.7 | 282.1 | 269.3 |
| 32 | 457.20 | 40.00 | 0.00 | 125.284 | 15.829 | 0.016 | 282.5 | 280.7 | 282.1 | 270.4 |
| 33 | 457.20 | 45.00 | 0.00 | 125.428 | 14.495 | 0.018 | 282.5 | 280.7 | 282.1 | 271.3 |
| 34 | 457.20 | 50.00 | 0.00 | 125.500 | 13.851 | 0.019 | 282.4 | 280.8 | 282.0 | 271.6 |
| 35 | 457.20 | 55.00 | 0.00 | 125.179 | 10.925 | 0.021 | 282.5 | 280.8 | 282.1 | 273.8 |
| 36 | 457.20 | 60.00 | 0.00 | 125.035 | 9.612 | 0.020 | 282.6 | 280.8 | 282.1 | 274.7 |
| 37 | 457.20 | 65.00 | 0.00 | 125.109 | 8.183 | 0.020 | 282.6 | 280.8 | 282.2 | 275.8 |
| 38 | 457.20 | 70.00 | 0.00 | 125.133 | 6.689 | 0.018 | 282.6 | 280.7 | 282.2 | 277.0 |
| 39 | 457.20 | 75.00 | 0.00 | 125.360 | 4.277 | 0.016 | 282.6 | 280.7 | 282.3 | 278.9 |
| 40 | 457.20 | 80.00 | 0.00 | 125.302 | 3.259 | 0.017 | 282.5 | 280.7 | 282.2 | 279.6 |
| 41 | 457.20 | 85.00 | 0.00 | 125.656 | 2.540 | 0.018 | 282.4 | 280.6 | 282.2 | 280.2 |
| 42 | 457.20 | 90.00 | 0.00 | 125.411 | 1.724 | 0.013 | 282.5 | 280.7 | 282.2 | 280.8 |
| 43 | 457.20 | 95.00 | 0.00 | 125.524 | 1.070 | 0.018 | 282.5 | 280.8 | 282.1 | 281.2 |
| 44 | 457.20 | 100.00 | 0.00 | 125.495 | 0.692 | 0.018 | 282.5 | 280.8 | 282.1 | 281.5 |
| 45 | 457.20 | 105.00 | 0.00 | 124.951 | 0.407 | 0.020 | 282.6 | 280.8 | 282.1 | 281.8 |
| 46 | 457.20 | 110.00 | 0.00 | 125.468 | 0.215 | 0.013 | 282.9 | 280.8 | 282.3 | 282.1 |

File : TAB235T 16-DEC-88
16-DEC-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDEMN
Config VII(b), +14 deg

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.239 kPa

Mean gauged plenum pressure : 124.903 kPa
RMS gauged plenum pressure : 0.715 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 125.240 | 0.260 | 0.017 | 280.8 | 280.3 | 279.8 | 279.6 |
| 3 | 457.20 | -105.00 | 0.00 | 125.254 | 0.502 | 0.017 | 280.7 | 280.3 | 280.0 | 279.6 |
| 4 | 457.20 | -100.00 | 0.00 | 125.108 | 0.820 | 0.019 | 280.5 | 280.3 | 280.0 | 279.3 |
| 5 | 457.20 | -95.00 | 0.00 | 124.743 | 1.455 | 0.016 | 280.5 | 280.3 | 279.9 | 278.7 |
| 6 | 457.20 | -90.00 | 0.00 | 124.223 | 2.415 | 0.014 | 280.7 | 280.4 | 280.0 | 278.1 |
| 7 | 457.20 | -85.00 | 0.00 | 123.907 | 4.055 | 0.014 | 280.8 | 280.4 | 280.2 | 277.0 |
| 8 | 457.20 | -80.00 | 0.00 | 123.804 | 4.487 | 0.020 | 280.4 | 280.3 | 280.0 | 276.4 |
| 9 | 457.20 | -75.00 | 0.00 | 123.862 | 6.042 | 0.019 | 280.3 | 280.4 | 280.0 | 275.3 |
| 10 | 457.20 | -70.00 | 0.00 | 123.922 | 7.582 | 0.019 | 280.3 | 280.4 | 280.0 | 274.1 |
| 11 | 457.20 | -65.00 | 0.00 | 123.873 | 9.138 | 0.014 | 280.5 | 280.4 | 279.9 | 272.9 |
| 12 | 457.20 | -60.00 | 0.00 | 123.900 | 11.246 | 0.016 | 280.6 | 280.4 | 280.0 | 271.4 |
| 13 | 457.20 | -55.00 | 0.00 | 123.986 | 13.146 | 0.014 | 280.7 | 280.4 | 280.0 | 270.1 |
| 14 | 457.20 | -50.00 | 0.00 | 124.017 | 15.003 | 0.018 | 280.5 | 280.4 | 280.0 | 268.8 |
| 15 | 457.20 | -45.00 | 0.00 | 124.214 | 15.882 | 0.021 | 280.2 | 280.4 | 279.9 | 268.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.562 | 16.795 | 0.016 | 280.4 | 280.4 | 279.9 | 267.5 |
| 17 | 457.20 | -35.00 | 0.00 | 124.679 | 17.720 | 0.016 | 280.3 | 280.5 | 279.9 | 266.9 |
| 18 | 457.20 | -30.00 | 0.00 | 125.481 | 19.431 | 0.017 | 280.2 | 280.4 | 279.9 | 265.8 |
| 19 | 457.20 | -25.00 | 0.00 | 125.592 | 22.139 | 0.017 | 280.3 | 280.4 | 279.8 | 264.0 |
| 20 | 457.20 | -20.00 | 0.00 | 124.746 | 25.916 | 0.017 | 280.3 | 280.4 | 279.8 | 261.7 |
| 21 | 457.20 | -15.00 | 0.00 | 124.874 | 31.360 | 0.018 | 280.5 | 280.4 | 279.9 | 258.5 |
| 22 | 457.20 | -10.00 | 0.00 | 124.876 | 37.672 | 0.018 | 280.3 | 280.3 | 279.9 | 255.0 |
| 23 | 457.20 | -5.00 | 0.00 | 124.815 | 43.313 | 0.015 | 280.4 | 280.4 | 279.9 | 252.1 |
| 24 | 457.20 | 0.00 | 0.00 | 124.818 | 46.174 | 0.018 | 280.3 | 280.3 | 279.8 | 250.6 |
| 25 | 457.20 | 5.00 | 0.00 | 124.784 | 44.637 | 0.017 | 280.3 | 280.4 | 279.8 | 251.3 |
| 26 | 457.20 | 10.00 | 0.00 | 124.639 | 39.454 | 0.026 | 280.2 | 280.4 | 279.7 | 253.9 |
| 27 | 457.20 | 15.00 | 0.00 | 124.541 | 32.841 | 0.017 | 280.2 | 280.3 | 279.7 | 257.5 |
| 28 | 457.20 | 20.00 | 0.00 | 124.438 | 27.527 | 0.021 | 280.1 | 280.3 | 279.6 | 260.5 |
| 29 | 457.20 | 25.00 | 0.00 | 124.896 | 22.900 | 0.019 | 280.2 | 280.3 | 279.6 | 263.3 |
| 30 | 457.20 | 30.00 | 0.00 | 124.965 | 20.533 | 0.019 | 280.2 | 280.3 | 279.7 | 264.9 |
| 31 | 457.20 | 35.00 | 0.00 | 125.069 | 18.678 | 0.023 | 280.2 | 280.3 | 279.7 | 266.1 |
| 32 | 457.20 | 40.00 | 0.00 | 125.144 | 17.676 | 0.023 | 280.4 | 280.3 | 279.7 | 266.8 |
| 33 | 457.20 | 45.00 | 0.00 | 126.487 | 16.981 | 0.018 | 280.6 | 280.3 | 279.8 | 267.3 |
| 34 | 457.20 | 50.00 | 0.00 | 126.593 | 16.143 | 0.025 | 280.6 | 280.4 | 279.8 | 267.9 |
| 35 | 457.20 | 55.00 | 0.00 | 126.651 | 15.223 | 0.023 | 280.6 | 280.3 | 279.8 | 268.5 |
| 36 | 457.20 | 60.00 | 0.00 | 126.601 | 12.899 | 0.020 | 280.5 | 280.4 | 279.8 | 270.1 |
| 37 | 457.20 | 65.00 | 0.00 | 125.217 | 11.241 | 0.023 | 280.4 | 280.4 | 279.9 | 271.4 |
| 38 | 457.20 | 70.00 | 0.00 | 125.198 | 9.630 | 0.019 | 280.4 | 280.3 | 279.8 | 272.4 |
| 39 | 457.20 | 75.00 | 0.00 | 125.163 | 7.079 | 0.016 | 280.5 | 280.3 | 279.8 | 274.3 |
| 40 | 457.20 | 80.00 | 0.00 | 125.214 | 6.044 | 0.020 | 280.6 | 280.4 | 279.9 | 275.2 |
| 41 | 457.20 | 85.00 | 0.00 | 125.155 | 4.229 | 0.016 | 280.5 | 280.3 | 279.9 | 276.5 |
| 42 | 457.20 | 90.00 | 0.00 | 125.252 | 3.242 | 0.018 | 280.4 | 280.3 | 279.8 | 277.2 |
| 43 | 457.20 | 95.00 | 0.00 | 125.974 | 2.226 | 0.017 | 280.5 | 280.4 | 279.8 | 278.0 |
| 44 | 457.20 | 100.00 | 0.00 | 124.784 | 1.690 | 0.014 | 280.5 | 280.4 | 279.8 | 278.4 |
| 45 | 457.20 | 105.00 | 0.00 | 124.779 | 0.776 | 0.016 | 280.5 | 280.3 | 279.9 | 279.3 |
| 46 | 457.20 | 110.00 | 0.00 | 124.788 | 0.547 | 0.013 | 280.5 | 280.3 | 279.8 | 279.4 |

File : TAB278T

23-JAN-89
23-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, 0 DEG
CONFIG V(C)

C1 : X/D = 9
C2 : HORIZONTAL
C3 :
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.578 kPa

Mean gauged plenum pressure : 124.717 kPa
RMS gauged plenum pressure : 0.249 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.823 | 0.049 | 0.012 | 278.3 | 279.0 | 277.5 | 277.5 |
| 3 | 457.20 | -105.00 | 0.00 | 125.015 | 0.013 | 0.012 | 278.2 | 279.0 | 277.6 | 277.6 |
| 4 | 457.20 | -100.00 | 0.00 | 124.530 | 0.012 | 0.012 | 278.4 | 279.0 | 277.7 | 277.7 |
| 5 | 457.20 | -95.00 | 0.00 | 124.642 | 0.011 | 0.012 | 278.4 | 279.0 | 277.8 | 277.8 |
| 6 | 457.20 | -90.00 | 0.00 | 124.590 | 0.009 | 0.012 | 278.5 | 279.0 | 277.9 | 277.9 |
| 7 | 457.20 | -85.00 | 0.00 | 124.485 | 0.009 | 0.012 | 278.6 | 279.0 | 278.0 | 278.0 |
| 8 | 457.20 | -80.00 | 0.00 | 124.632 | 0.007 | 0.015 | 278.6 | 278.9 | 278.0 | 278.0 |
| 9 | 457.20 | -75.00 | 0.00 | 124.740 | 0.008 | 0.020 | 278.6 | 279.0 | 278.1 | 278.1 |
| 10 | 457.20 | -70.00 | 0.00 | 124.782 | 0.010 | 0.019 | 278.8 | 279.0 | 278.1 | 278.1 |
| 11 | 457.20 | -65.00 | 0.00 | 124.670 | 0.052 | 0.021 | 278.9 | 279.0 | 278.2 | 278.2 |
| 12 | 457.20 | -60.00 | 0.00 | 124.891 | 0.270 | 0.023 | 279.0 | 279.0 | 278.3 | 278.1 |
| 13 | 457.20 | -55.00 | 0.00 | 125.015 | 0.640 | 0.027 | 279.0 | 279.0 | 278.4 | 277.9 |
| 14 | 457.20 | -50.00 | 0.00 | 124.348 | 1.272 | 0.026 | 279.0 | 279.0 | 278.4 | 277.4 |
| 15 | 457.20 | -45.00 | 0.00 | 124.549 | 2.209 | 0.030 | 279.2 | 279.0 | 278.5 | 276.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.711 | 3.554 | 0.024 | 279.3 | 279.0 | 278.6 | 275.8 |
| 17 | 457.20 | -35.00 | 0.00 | 125.011 | 5.779 | 0.030 | 279.5 | 279.0 | 278.7 | 274.2 |
| 18 | 457.20 | -30.00 | 0.00 | 124.663 | 8.577 | 0.027 | 279.7 | 279.0 | 278.9 | 272.3 |
| 19 | 457.20 | -25.00 | 0.00 | 124.811 | 12.745 | 0.033 | 279.8 | 279.0 | 279.0 | 269.5 |
| 20 | 457.20 | -20.00 | 0.00 | 124.700 | 18.233 | 0.032 | 279.8 | 279.0 | 279.0 | 265.8 |
| 21 | 457.20 | -15.00 | 0.00 | 124.736 | 26.532 | 0.032 | 280.0 | 279.0 | 279.1 | 260.7 |
| 22 | 457.20 | -10.00 | 0.00 | 125.070 | 35.462 | 0.028 | 280.2 | 279.0 | 279.2 | 255.7 |
| 23 | 457.20 | -5.00 | 0.00 | 124.709 | 46.101 | 0.031 | 280.4 | 279.0 | 279.4 | 250.3 |
| 24 | 457.20 | 0.00 | 0.00 | 124.484 | 51.995 | 0.035 | 280.5 | 279.0 | 279.5 | 247.6 |
| 25 | 457.20 | 5.00 | 0.00 | 124.423 | 50.433 | 0.036 | 280.6 | 279.0 | 279.7 | 248.5 |
| 26 | 457.20 | 10.00 | 0.00 | 125.089 | 43.360 | 0.037 | 280.8 | 279.0 | 279.7 | 252.0 |
| 27 | 457.20 | 15.00 | 0.00 | 124.870 | 32.099 | 0.036 | 280.9 | 279.0 | 279.7 | 258.0 |
| 28 | 457.20 | 20.00 | 0.00 | 124.986 | 22.970 | 0.038 | 281.0 | 279.0 | 279.8 | 263.5 |
| 29 | 457.20 | 25.00 | 0.00 | 124.914 | 15.735 | 0.034 | 280.9 | 279.0 | 279.8 | 268.2 |
| 30 | 457.20 | 30.00 | 0.00 | 124.629 | 11.010 | 0.030 | 281.1 | 279.0 | 279.9 | 271.5 |
| 31 | 457.20 | 35.00 | 0.00 | 124.704 | 6.664 | 0.029 | 281.1 | 279.0 | 280.0 | 274.8 |
| 32 | 457.20 | 40.00 | 0.00 | 124.422 | 4.073 | 0.029 | 281.2 | 279.1 | 280.0 | 276.8 |
| 33 | 457.20 | 45.00 | 0.00 | 124.416 | 2.593 | 0.032 | 281.2 | 279.0 | 280.1 | 278.0 |
| 34 | 457.20 | 50.00 | 0.00 | 124.502 | 1.435 | 0.029 | 281.3 | 279.1 | 280.2 | 279.0 |
| 35 | 457.20 | 55.00 | 0.00 | 124.900 | 0.789 | 0.028 | 281.3 | 279.0 | 280.1 | 279.5 |
| 36 | 457.20 | 60.00 | 0.00 | 124.625 | 0.380 | 0.029 | 281.4 | 279.0 | 280.3 | 280.0 |
| 37 | 457.20 | 65.00 | 0.00 | 124.851 | 0.147 | 0.021 | 281.5 | 279.1 | 280.4 | 280.3 |
| 38 | 457.20 | 70.00 | 0.00 | 125.084 | 0.012 | 0.016 | 281.5 | 279.1 | 280.4 | 280.4 |
| 39 | 457.20 | 75.00 | 0.00 | 124.922 | 0.008 | 0.017 | 281.6 | 279.1 | 280.5 | 280.5 |
| 40 | 457.20 | 80.00 | 0.00 | 124.542 | 0.007 | 0.017 | 281.7 | 279.1 | 280.6 | 280.6 |
| 41 | 457.20 | 85.00 | 0.00 | 124.881 | 0.008 | 0.020 | 281.7 | 279.1 | 280.7 | 280.7 |
| 42 | 457.20 | 90.00 | 0.00 | 124.742 | 0.008 | 0.024 | 281.7 | 279.1 | 280.7 | 280.7 |
| 43 | 457.20 | 95.00 | 0.00 | 124.445 | 0.009 | 0.021 | 281.9 | 279.1 | 280.8 | 280.8 |
| 44 | 457.20 | 100.00 | 0.00 | 124.844 | 0.008 | 0.018 | 281.9 | 279.1 | 280.8 | 280.8 |
| 45 | 457.20 | 105.00 | 0.00 | 124.575 | 0.009 | 0.019 | 282.0 | 279.1 | 280.9 | 280.9 |
| 46 | 457.20 | 110.00 | 0.00 | 124.492 | 0.009 | 0.023 | 282.0 | 279.1 | 281.0 | 281.0 |

File : TAB277T 23-JAN-89
23-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTTAB, 0 DEG
CONFIG V(C)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.544 kPa

Mean gauged plenum pressure : 124.740 kPa
RMS gauged plenum pressure : 0.284 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 124.714 | 10.654 | 0.056 | 274.8 | 278.7 | 274.6 | 266.6 |
| 3 | 457.20 | 0.00 | -58.00 | 124.422 | 12.044 | 0.058 | 275.0 | 278.8 | 274.5 | 265.6 |
| 4 | 457.20 | 0.00 | -56.00 | 124.731 | 13.033 | 0.059 | 274.9 | 278.9 | 274.6 | 265.0 |
| 5 | 457.20 | 0.00 | -54.00 | 124.429 | 14.555 | 0.061 | 274.9 | 278.9 | 274.6 | 264.0 |
| 6 | 457.20 | 0.00 | -52.00 | 124.684 | 16.046 | 0.060 | 274.9 | 278.9 | 274.6 | 263.0 |
| 7 | 457.20 | 0.00 | -50.00 | 125.020 | 17.162 | 0.066 | 275.0 | 279.0 | 274.7 | 262.4 |
| 8 | 457.20 | 0.00 | -48.00 | 124.992 | 18.865 | 0.067 | 275.1 | 279.0 | 274.8 | 261.4 |
| 9 | 457.20 | 0.00 | -46.00 | 124.894 | 20.072 | 0.073 | 275.2 | 279.1 | 274.9 | 260.7 |
| 10 | 457.20 | 0.00 | -44.00 | 124.635 | 21.671 | 0.073 | 275.2 | 279.0 | 274.9 | 259.7 |
| 11 | 457.20 | 0.00 | -42.00 | 124.639 | 23.449 | 0.078 | 275.4 | 279.0 | 275.1 | 258.8 |
| 12 | 457.20 | 0.00 | -40.00 | 124.669 | 25.261 | 0.080 | 275.5 | 279.1 | 275.2 | 257.8 |
| 13 | 457.20 | 0.00 | -38.00 | 124.475 | 26.809 | 0.083 | 275.5 | 279.1 | 275.2 | 256.9 |
| 14 | 457.20 | 0.00 | -36.00 | 124.771 | 28.725 | 0.084 | 275.7 | 279.1 | 275.4 | 255.9 |
| 15 | 457.20 | 0.00 | -34.00 | 124.851 | 30.641 | 0.080 | 275.7 | 279.0 | 275.4 | 254.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -32.00 | 124.929 | 32.232 | 0.079 | 275.9 | 279.1 | 275.5 | 254.0 |
| 17 | 457.20 | 0.00 | -30.00 | 125.106 | 34.128 | 0.081 | 276.0 | 279.1 | 275.6 | 253.1 |
| 18 | 457.20 | 0.00 | -28.00 | 124.705 | 35.694 | 0.082 | 276.0 | 279.1 | 275.6 | 252.2 |
| 19 | 457.20 | 0.00 | -26.00 | 124.710 | 37.669 | 0.077 | 276.1 | 279.1 | 275.7 | 251.3 |
| 20 | 457.20 | 0.00 | -24.00 | 124.386 | 39.217 | 0.078 | 276.2 | 279.1 | 275.8 | 250.6 |
| 21 | 457.20 | 0.00 | -22.00 | 124.769 | 41.331 | 0.074 | 276.3 | 279.0 | 275.8 | 249.5 |
| 22 | 457.20 | 0.00 | -20.00 | 124.609 | 42.773 | 0.074 | 276.3 | 279.0 | 275.8 | 248.7 |
| 23 | 457.20 | 0.00 | -18.00 | 124.959 | 44.597 | 0.073 | 276.3 | 279.1 | 275.9 | 247.9 |
| 24 | 457.20 | 0.00 | -16.00 | 124.910 | 45.992 | 0.067 | 276.4 | 279.0 | 275.9 | 247.2 |
| 25 | 457.20 | 0.00 | -14.00 | 124.857 | 47.223 | 0.071 | 276.5 | 279.1 | 276.1 | 246.8 |
| 26 | 457.20 | 0.00 | -12.00 | 124.902 | 48.264 | 0.066 | 276.5 | 279.1 | 276.0 | 246.2 |
| 27 | 457.20 | 0.00 | -10.00 | 124.327 | 50.391 | 0.067 | 276.6 | 279.1 | 276.1 | 245.3 |
| 28 | 457.20 | 0.00 | -8.00 | 124.416 | 50.283 | 0.065 | 276.7 | 279.1 | 276.2 | 245.4 |
| 29 | 457.20 | 0.00 | -6.00 | 124.408 | 51.011 | 0.066 | 276.7 | 279.0 | 276.4 | 245.3 |
| 30 | 457.20 | 0.00 | -4.00 | 124.892 | 51.506 | 0.062 | 276.9 | 279.1 | 276.5 | 245.1 |
| 31 | 457.20 | 0.00 | -2.00 | 124.717 | 52.331 | 0.057 | 277.0 | 279.1 | 276.6 | 244.8 |
| 32 | 457.20 | 0.00 | 0.00 | 125.174 | 52.801 | 0.054 | 277.1 | 279.0 | 276.5 | 244.5 |
| 33 | 457.20 | 0.00 | 2.00 | 125.090 | 52.366 | 0.050 | 277.3 | 279.1 | 276.6 | 244.8 |
| 34 | 457.20 | 0.00 | 4.00 | 124.892 | 52.135 | 0.049 | 277.4 | 279.0 | 276.7 | 245.0 |
| 35 | 457.20 | 0.00 | 6.00 | 125.001 | 51.396 | 0.046 | 277.3 | 279.1 | 276.6 | 245.3 |
| 36 | 457.20 | 0.00 | 8.00 | 124.513 | 50.467 | 0.041 | 277.4 | 279.1 | 276.6 | 245.7 |
| 37 | 457.20 | 0.00 | 10.00 | 124.359 | 49.230 | 0.038 | 277.6 | 279.0 | 276.8 | 246.5 |

File : TAB259T

12-JAN-89
12-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN, +14 DEG
CONFIGURATION V(C)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 124.894 kPa
RMS gauged plenum pressure : 0.311 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.594 | 0.116 | 0.018 | 284.0 | 281.3 | 284.0 | 283.9 |
| 3 | 457.20 | -105.00 | 0.00 | 125.070 | 0.078 | 0.018 | 284.0 | 281.4 | 284.1 | 284.0 |
| 4 | 457.20 | -100.00 | 0.00 | 124.775 | 0.062 | 0.021 | 284.0 | 281.3 | 284.0 | 283.9 |
| 5 | 457.20 | -95.00 | 0.00 | 124.657 | 0.033 | 0.020 | 284.1 | 281.4 | 284.0 | 284.0 |
| 6 | 457.20 | -90.00 | 0.00 | 124.753 | 0.016 | 0.015 | 284.0 | 281.4 | 284.0 | 284.0 |
| 7 | 457.20 | -85.00 | 0.00 | 124.742 | 0.013 | 0.015 | 284.0 | 281.4 | 283.9 | 283.9 |
| 8 | 457.20 | -80.00 | 0.00 | 124.821 | 0.013 | 0.016 | 284.0 | 281.4 | 283.6 | 283.6 |
| 9 | 457.20 | -75.00 | 0.00 | 124.742 | 0.013 | 0.019 | 284.0 | 281.4 | 283.6 | 283.6 |
| 10 | 457.20 | -70.00 | 0.00 | 125.020 | 0.025 | 0.016 | 284.0 | 281.4 | 283.2 | 283.2 |
| 11 | 457.20 | -65.00 | 0.00 | 124.639 | 0.100 | 0.015 | 284.0 | 281.3 | 283.0 | 282.9 |
| 12 | 457.20 | -60.00 | 0.00 | 125.121 | 0.298 | 0.016 | 284.0 | 281.4 | 282.7 | 282.5 |
| 13 | 457.20 | -55.00 | 0.00 | 125.172 | 0.677 | 0.017 | 284.0 | 281.3 | 282.4 | 281.8 |
| 14 | 457.20 | -50.00 | 0.00 | 125.084 | 1.380 | 0.016 | 284.0 | 281.4 | 282.3 | 281.2 |
| 15 | 457.20 | -45.00 | 0.00 | 125.042 | 2.338 | 0.018 | 284.0 | 281.4 | 282.2 | 280.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 124.736 | 3.686 | 0.017 | 284.0 | 281.4 | 284.0 | 281.0 |
| 17 | 457.20 | -35.00 | 0.00 | 124.699 | 6.036 | 0.019 | 284.0 | 281.4 | 284.0 | 279.2 |
| 18 | 457.20 | -30.00 | 0.00 | 124.649 | 9.296 | 0.019 | 284.0 | 281.3 | 283.8 | 276.6 |
| 19 | 457.20 | -25.00 | 0.00 | 125.471 | 14.041 | 0.019 | 284.0 | 281.4 | 283.7 | 273.1 |
| 20 | 457.20 | -20.00 | 0.00 | 125.043 | 20.534 | 0.017 | 284.0 | 281.5 | 283.2 | 268.3 |
| 21 | 457.20 | -15.00 | 0.00 | 125.181 | 29.535 | 0.018 | 284.0 | 281.4 | 283.4 | 262.9 |
| 22 | 457.20 | -10.00 | 0.00 | 124.846 | 39.240 | 0.024 | 284.0 | 281.4 | 283.4 | 257.4 |
| 23 | 457.20 | -5.00 | 0.00 | 124.931 | 49.053 | 0.017 | 284.0 | 281.4 | 283.8 | 252.8 |
| 24 | 457.20 | 0.00 | 0.00 | 124.810 | 52.996 | 0.017 | 284.0 | 281.4 | 283.9 | 251.0 |
| 25 | 457.20 | 5.00 | 0.00 | 124.633 | 49.329 | 0.018 | 283.9 | 281.3 | 281.9 | 250.9 |
| 26 | 457.20 | 10.00 | 0.00 | 124.828 | 40.390 | 0.017 | 283.9 | 281.3 | 282.2 | 255.7 |
| 27 | 457.20 | 15.00 | 0.00 | 124.767 | 29.620 | 0.015 | 283.9 | 281.3 | 283.5 | 262.9 |
| 28 | 457.20 | 20.00 | 0.00 | 125.058 | 20.598 | 0.013 | 283.9 | 281.4 | 283.6 | 268.6 |
| 29 | 457.20 | 25.00 | 0.00 | 124.780 | 14.287 | 0.013 | 283.9 | 281.4 | 283.7 | 272.9 |
| 30 | 457.20 | 30.00 | 0.00 | 124.811 | 9.585 | 0.013 | 283.9 | 281.4 | 283.5 | 276.1 |
| 31 | 457.20 | 35.00 | 0.00 | 124.735 | 6.191 | 0.016 | 283.9 | 281.4 | 283.6 | 278.7 |
| 32 | 457.20 | 40.00 | 0.00 | 124.682 | 3.719 | 0.016 | 283.9 | 281.4 | 283.7 | 280.7 |
| 33 | 457.20 | 45.00 | 0.00 | 124.462 | 2.409 | 0.017 | 283.9 | 281.3 | 283.7 | 281.7 |
| 34 | 457.20 | 50.00 | 0.00 | 124.781 | 1.312 | 0.014 | 284.0 | 281.3 | 283.7 | 282.6 |
| 35 | 457.20 | 55.00 | 0.00 | 125.187 | 0.752 | 0.018 | 283.9 | 281.3 | 283.7 | 283.1 |
| 36 | 457.20 | 60.00 | 0.00 | 125.706 | 0.410 | 0.018 | 284.0 | 281.4 | 283.7 | 283.4 |
| 37 | 457.20 | 65.00 | 0.00 | 124.961 | 0.214 | 0.015 | 284.0 | 281.5 | 283.7 | 283.5 |
| 38 | 457.20 | 70.00 | 0.00 | 125.073 | 0.034 | 0.017 | 284.0 | 281.4 | 283.8 | 283.8 |
| 39 | 457.20 | 75.00 | 0.00 | 124.815 | 0.013 | 0.017 | 283.9 | 281.4 | 283.7 | 283.7 |
| 40 | 457.20 | 80.00 | 0.00 | 124.840 | 0.011 | 0.018 | 283.9 | 281.3 | 283.7 | 283.7 |
| 41 | 457.20 | 85.00 | 0.00 | 124.798 | 0.010 | 0.015 | 283.9 | 281.3 | 283.8 | 283.8 |
| 42 | 457.20 | 90.00 | 0.00 | 124.502 | 0.011 | 0.013 | 283.9 | 281.3 | 283.8 | 283.8 |
| 43 | 457.20 | 95.00 | 0.00 | 125.069 | 0.011 | 0.014 | 284.0 | 281.3 | 283.8 | 283.8 |
| 44 | 457.20 | 100.00 | 0.00 | 125.172 | 0.011 | 0.015 | 284.0 | 281.4 | 283.9 | 283.9 |
| 45 | 457.20 | 105.00 | 0.00 | 124.796 | 0.011 | 0.012 | 284.0 | 281.5 | 283.9 | 283.9 |
| 46 | 457.20 | 110.00 | 0.00 | 124.986 | 0.011 | 0.013 | 284.1 | 281.4 | 283.9 | 283.9 |

File : TAB266T 16-JAN-89
16-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 1.15
DRPTAB, PLTDMN, +14 DEG
CONFIG V(C)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.713 kPa

Mean gauged plenum pressure : 125.043 kPa
RMS gauged plenum pressure : 0.304 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 124.782 | 0.116 | 0.013 | 277.8 | 279.1 | 277.8 | 277.7 |
| 3 | 457.20 | -105.00 | 0.00 | 124.989 | 0.063 | 0.013 | 277.7 | 279.2 | 277.8 | 277.7 |
| 4 | 457.20 | -100.00 | 0.00 | 124.836 | 0.049 | 0.012 | 277.7 | 279.2 | 277.8 | 277.8 |
| 5 | 457.20 | -95.00 | 0.00 | 124.992 | 0.021 | 0.012 | 277.7 | 279.3 | 277.8 | 277.8 |
| 6 | 457.20 | -90.00 | 0.00 | 125.399 | 0.014 | 0.013 | 277.7 | 279.4 | 277.8 | 277.8 |
| 7 | 457.20 | -85.00 | 0.00 | 125.249 | 0.013 | 0.012 | 277.6 | 279.4 | 277.8 | 277.8 |
| 8 | 457.20 | -80.00 | 0.00 | 125.420 | 0.012 | 0.012 | 277.5 | 279.4 | 277.8 | 277.8 |
| 9 | 457.20 | -75.00 | 0.00 | 125.429 | 0.017 | 0.012 | 277.5 | 279.4 | 277.8 | 277.8 |
| 10 | 457.20 | -70.00 | 0.00 | 125.167 | 0.047 | 0.013 | 277.5 | 279.4 | 277.7 | 277.7 |
| 11 | 457.20 | -65.00 | 0.00 | 124.504 | 0.178 | 0.013 | 277.5 | 279.3 | 277.7 | 277.6 |
| 12 | 457.20 | -60.00 | 0.00 | 125.080 | 0.432 | 0.013 | 277.5 | 279.4 | 277.7 | 277.4 |
| 13 | 457.20 | -55.00 | 0.00 | 124.740 | 0.846 | 0.014 | 277.5 | 279.3 | 277.7 | 277.0 |
| 14 | 457.20 | -50.00 | 0.00 | 125.317 | 1.546 | 0.016 | 277.4 | 279.4 | 277.6 | 276.4 |
| 15 | 457.20 | -45.00 | 0.00 | 125.341 | 2.456 | 0.017 | 277.4 | 279.4 | 277.6 | 275.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 125.118 | 4.360 | 0.019 | 277.4 | 279.4 | 277.6 | 274.2 |
| 17 | 457.20 | -35.00 | 0.00 | 124.941 | 6.801 | 0.015 | 277.3 | 279.4 | 277.5 | 272.3 |
| 18 | 457.20 | -30.00 | 0.00 | 124.974 | 9.856 | 0.019 | 277.3 | 279.4 | 277.5 | 270.0 |
| 19 | 457.20 | -25.00 | 0.00 | 124.998 | 13.867 | 0.018 | 277.3 | 279.4 | 277.4 | 267.2 |
| 20 | 457.20 | -20.00 | 0.00 | 124.864 | 20.533 | 0.018 | 277.2 | 279.4 | 277.2 | 262.6 |
| 21 | 457.20 | -15.00 | 0.00 | 125.101 | 27.853 | 0.019 | 277.0 | 279.4 | 277.2 | 258.2 |
| 22 | 457.20 | -10.00 | 0.00 | 124.971 | 38.886 | 0.019 | 277.0 | 279.4 | 277.1 | 252.0 |
| 23 | 457.20 | -5.00 | 0.00 | 124.925 | 46.886 | 0.015 | 276.9 | 279.3 | 277.0 | 247.8 |
| 24 | 457.20 | 0.00 | 0.00 | 124.908 | 51.845 | 0.015 | 276.9 | 279.4 | 277.0 | 245.4 |
| 25 | 457.20 | 5.00 | 0.00 | 125.201 | 50.811 | 0.017 | 276.8 | 279.4 | 277.0 | 245.9 |
| 26 | 457.20 | 10.00 | 0.00 | 125.239 | 41.805 | 0.014 | 276.8 | 279.4 | 276.9 | 250.3 |
| 27 | 457.20 | 15.00 | 0.00 | 125.067 | 32.647 | 0.014 | 276.8 | 279.4 | 276.9 | 255.1 |
| 28 | 457.20 | 20.00 | 0.00 | 125.327 | 23.250 | 0.015 | 276.8 | 279.4 | 276.8 | 260.5 |
| 29 | 457.20 | 25.00 | 0.00 | 125.346 | 16.377 | 0.017 | 276.8 | 279.4 | 276.8 | 264.9 |
| 30 | 457.20 | 30.00 | 0.00 | 125.047 | 11.253 | 0.016 | 276.8 | 279.4 | 276.7 | 268.3 |
| 31 | 457.20 | 35.00 | 0.00 | 124.689 | 6.976 | 0.020 | 276.7 | 279.3 | 276.6 | 271.2 |
| 32 | 457.20 | 40.00 | 0.00 | 124.739 | 4.911 | 0.015 | 276.7 | 279.4 | 276.6 | 272.8 |
| 33 | 457.20 | 45.00 | 0.00 | 125.303 | 2.771 | 0.018 | 276.8 | 279.4 | 276.6 | 274.4 |
| 34 | 457.20 | 50.00 | 0.00 | 125.092 | 1.736 | 0.019 | 276.8 | 279.4 | 276.6 | 275.2 |
| 35 | 457.20 | 55.00 | 0.00 | 125.177 | 0.918 | 0.019 | 276.7 | 279.3 | 276.6 | 275.9 |
| 36 | 457.20 | 60.00 | 0.00 | 125.096 | 0.545 | 0.020 | 276.7 | 279.3 | 276.6 | 276.2 |
| 37 | 457.20 | 65.00 | 0.00 | 125.087 | 0.182 | 0.015 | 276.7 | 279.4 | 276.7 | 276.6 |
| 38 | 457.20 | 70.00 | 0.00 | 125.428 | 0.048 | 0.021 | 276.8 | 279.3 | 276.7 | 276.7 |
| 39 | 457.20 | 75.00 | 0.00 | 125.010 | 0.013 | 0.018 | 276.8 | 279.3 | 276.8 | 276.8 |
| 40 | 457.20 | 80.00 | 0.00 | 124.991 | 0.011 | 0.018 | 276.8 | 279.3 | 276.8 | 276.8 |
| 41 | 457.20 | 85.00 | 0.00 | 124.953 | 0.010 | 0.017 | 276.9 | 279.3 | 276.8 | 276.8 |
| 42 | 457.20 | 90.00 | 0.00 | 124.914 | 0.010 | 0.016 | 276.8 | 279.3 | 276.9 | 276.9 |
| 43 | 457.20 | 95.00 | 0.00 | 124.831 | 0.011 | 0.017 | 276.8 | 279.3 | 276.8 | 276.8 |
| 44 | 457.20 | 100.00 | 0.00 | 124.592 | 0.012 | 0.014 | 276.9 | 279.3 | 276.9 | 276.9 |
| 45 | 457.20 | 105.00 | 0.00 | 124.644 | 0.011 | 0.015 | 276.9 | 279.3 | 276.9 | 276.9 |
| 46 | 457.20 | 110.00 | 0.00 | 124.870 | 0.011 | 0.015 | 276.9 | 279.3 | 276.9 | 276.9 |

| CONFIGURATION | $X/D_E$ | $T_j/T_o$ | $M_j$ | HORIZONTAL | VERTICAL | DIAGONAL -14° | DIAGONAL +14° |
|---|---|---|---|---|---|---|---|
| I - B | 15 | 1 | 0.8 | TAB283T | TAB284T | TAB290T | - - - - |
| | 13 | 1 | 0.8 | TAB295T | TAB294T | TAB291T | - - - - |
| | 11 | 1 | 0.8 | TAB298T | TAB299T | TAB305T | - - - - |
| | 9 | 1 | 0.8 | TAB149T | TAB148T | TAB167T | TAB180T |
| | 7 | 1 | 0.8 | TAB324T | TAB325T | TAB306T | - - - - |
| | 5 | 1 | 0.8 | TAB321T | TAB320T | TAB308T | - - - - |
| | 2 | 1 | 0.8 | TAB316T | TAB317T | TAB313T | - - - - |
| III - B | 15 | 1 | 0.8 | TAB286T | TAB285T | TAB289T | - - - - |
| | 13 | 1 | 0.8 | TAB296T | TAB297T | TAB292T | - - - - |
| | 11 | 1 | 0.8 | TAB301T | TAB300T | TAB304T | - - - - |
| | 9 | 1 | 0.8 | TAB155T | TAB156T | TAB170T | TAB181T |
| | 7 | 1 | 0.8 | TAB327T | TAB326T | TAB307T | - - - - |
| | 5 | 1 | 0.8 | TAB322T | TAB323T | TAB309T | - - - - |
| | 2 | 1 | 0.8 | TAB319T | TAB318T | TAB311T | - - - - |

Figure 11 Effect of Axial Distance on Mixing Modification

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File : TAB283T 27-JAN-89
27-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, DAPTAB
CONFIG I(B)

C1 : X/D = 15
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.442 kPa

Mean gauged plenum pressure : 51.347 kPa
RMS gauged plenum pressure : 0.142 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 762.00 | -160.00 | 0.00 | 51.305 | 0.142 | 0.083 | 282.2 | 280.0 | 282.7 | 282.6 |
| 3 | 762.00 | -152.00 | 0.00 | 51.565 | 0.195 | 0.087 | 282.2 | 279.9 | 282.7 | 282.5 |
| 4 | 762.00 | -144.00 | 0.00 | 51.538 | 0.273 | 0.088 | 282.0 | 280.0 | 282.6 | 282.4 |
| 5 | 762.00 | -136.00 | 0.00 | 51.572 | 0.377 | 0.095 | 282.0 | 280.0 | 282.6 | 282.3 |
| 6 | 762.00 | -128.00 | 0.00 | 51.558 | 0.582 | 0.093 | 282.0 | 280.0 | 282.5 | 282.0 |
| 7 | 762.00 | -120.00 | 0.00 | 51.537 | 0.663 | 0.097 | 282.0 | 280.0 | 282.4 | 281.9 |
| 8 | 762.00 | -112.00 | 0.00 | 51.329 | 1.066 | 0.096 | 282.0 | 280.0 | 282.4 | 281.5 |
| 9 | 762.00 | -104.00 | 0.00 | 51.143 | 1.484 | 0.094 | 282.0 | 280.0 | 282.4 | 281.2 |
| 10 | 762.00 | -96.00 | 0.00 | 51.310 | 1.910 | 0.091 | 282.0 | 280.1 | 282.4 | 280.9 |
| 11 | 762.00 | -88.00 | 0.00 | 51.231 | 2.629 | 0.087 | 282.0 | 280.1 | 282.3 | 280.2 |
| 12 | 762.00 | -80.00 | 0.00 | 51.188 | 3.299 | 0.084 | 282.0 | 280.1 | 282.2 | 279.6 |
| 13 | 762.00 | -72.00 | 0.00 | 51.378 | 4.137 | 0.082 | 282.0 | 280.1 | 282.1 | 278.8 |
| 14 | 762.00 | -64.00 | 0.00 | 51.551 | 4.839 | 0.085 | 281.9 | 280.1 | 282.0 | 278.2 |
| 15 | 762.00 | -56.00 | 0.00 | 51.533 | 5.482 | 0.087 | 281.9 | 280.1 | 282.0 | 277.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 762.00 | -48.00 | 0.00 | 51.406 | 5.915 | 0.084 | 281.8 | 280.1 | 281.7 | 277.0 |
| 17 | 762.00 | -40.00 | 0.00 | 51.426 | 6.026 | 0.088 | 281.9 | 280.1 | 282.4 | 277.6 |
| 18 | 762.00 | -32.00 | 0.00 | 51.441 | 5.984 | 0.084 | 281.9 | 280.1 | 282.1 | 277.4 |
| 19 | 762.00 | -24.00 | 0.00 | 51.445 | 5.796 | 0.079 | 281.9 | 280.1 | 281.6 | 277.0 |
| 20 | 762.00 | -16.00 | 0.00 | 51.423 | 5.574 | 0.079 | 281.9 | 280.1 | 281.4 | 277.0 |
| 21 | 762.00 | -8.00 | 0.00 | 51.380 | 5.475 | 0.072 | 281.9 | 280.1 | 281.9 | 277.6 |
| 22 | 762.00 | 0.00 | 0.00 | 51.285 | 5.443 | 0.074 | 281.8 | 280.1 | 281.7 | 277.4 |
| 23 | 762.00 | 8.00 | 0.00 | 51.269 | 5.454 | 0.068 | 281.8 | 280.1 | 281.5 | 277.2 |
| 24 | 762.00 | 16.00 | 0.00 | 51.261 | 5.627 | 0.066 | 281.8 | 280.0 | 282.0 | 277.5 |
| 25 | 762.00 | 24.00 | 0.00 | 51.217 | 5.871 | 0.062 | 281.9 | 280.1 | 281.6 | 277.0 |
| 26 | 762.00 | 32.00 | 0.00 | 51.274 | 6.022 | 0.050 | 281.8 | 280.1 | 281.6 | 276.9 |
| 27 | 762.00 | 40.00 | 0.00 | 51.312 | 6.026 | 0.051 | 281.8 | 280.1 | 282.7 | 277.9 |
| 28 | 762.00 | 48.00 | 0.00 | 51.443 | 5.789 | 0.049 | 281.7 | 280.1 | 281.5 | 276.9 |
| 29 | 762.00 | 56.00 | 0.00 | 51.490 | 5.405 | 0.051 | 281.7 | 280.1 | 281.1 | 276.8 |
| 30 | 762.00 | 64.00 | 0.00 | 51.500 | 4.758 | 0.046 | 281.7 | 280.0 | 281.5 | 277.7 |
| 31 | 762.00 | 72.00 | 0.00 | 51.500 | 4.091 | 0.040 | 281.6 | 280.0 | 280.9 | 277.6 |
| 32 | 762.00 | 80.00 | 0.00 | 51.348 | 3.132 | 0.037 | 281.6 | 280.0 | 280.8 | 278.3 |
| 33 | 762.00 | 88.00 | 0.00 | 51.247 | 2.342 | 0.038 | 281.7 | 280.0 | 281.5 | 279.6 |
| 34 | 762.00 | 96.00 | 0.00 | 51.243 | 1.745 | 0.030 | 281.7 | 280.0 | 280.7 | 279.3 |
| 35 | 762.00 | 104.00 | 0.00 | 51.219 | 1.218 | 0.028 | 281.7 | 280.0 | 276.6 | 275.6 |
| 36 | 762.00 | 112.00 | 0.00 | 51.248 | 0.860 | 0.030 | 281.6 | 280.0 | 281.5 | 280.8 |
| 37 | 762.00 | 120.00 | 0.00 | 51.248 | 0.620 | 0.022 | 281.6 | 280.0 | 281.7 | 281.2 |
| 38 | 762.00 | 128.00 | 0.00 | 51.254 | 0.305 | 0.020 | 281.5 | 280.0 | 281.6 | 281.4 |
| 39 | 762.00 | 136.00 | 0.00 | 51.255 | 0.177 | 0.016 | 281.5 | 279.9 | 281.6 | 281.5 |
| 40 | 762.00 | 144.00 | 0.00 | 51.256 | 0.112 | 0.015 | 281.4 | 279.9 | 281.5 | 281.4 |
| 41 | 762.00 | 152.00 | 0.00 | 51.259 | 0.038 | 0.014 | 281.4 | 279.9 | 281.6 | 281.6 |
| 42 | 762.00 | 160.00 | 0.00 | 51.239 | 0.013 | 0.012 | 281.4 | 279.9 | 281.6 | 281.6 |

File : TAB284T

27-JAN-89
27-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG I(B)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.510 kPa

Mean gauged plenum pressure : 51.242 kPa
RMS gauged plenum pressure : 0.118 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 762.00 | 0.00 | -120.00 | 51.243 | 0.046 | 0.018 | 281.2 | 279.8 | 281.2 | 281.2 |
| 3 | 762.00 | 0.00 | -116.00 | 51.218 | 0.070 | 0.020 | 281.2 | 279.7 | 281.3 | 281.2 |
| 4 | 762.00 | 0.00 | -112.00 | 51.219 | 0.075 | 0.017 | 281.2 | 279.7 | 281.3 | 281.2 |
| 5 | 762.00 | 0.00 | -108.00 | 51.252 | 0.107 | 0.014 | 281.2 | 279.8 | 281.3 | 281.2 |
| 6 | 762.00 | 0.00 | -104.00 | 51.260 | 0.123 | 0.014 | 281.2 | 279.7 | 281.3 | 281.2 |
| 7 | 762.00 | 0.00 | -100.00 | 51.257 | 0.147 | 0.015 | 281.2 | 279.7 | 281.3 | 281.2 |
| 8 | 762.00 | 0.00 | -96.00 | 51.289 | 0.227 | 0.016 | 281.1 | 279.7 | 281.4 | 281.2 |
| 9 | 762.00 | 0.00 | -92.00 | 51.307 | 0.303 | 0.013 | 281.1 | 279.7 | 281.4 | 281.2 |
| 10 | 762.00 | 0.00 | -88.00 | 51.353 | 0.333 | 0.013 | 281.0 | 279.7 | 281.3 | 281.0 |
| 11 | 762.00 | 0.00 | -84.00 | 51.431 | 0.432 | 0.016 | 281.0 | 279.7 | 281.3 | 280.9 |
| 12 | 762.00 | 0.00 | -80.00 | 51.504 | 0.529 | 0.013 | 280.9 | 279.7 | 281.3 | 280.9 |
| 13 | 762.00 | 0.00 | -76.00 | 51.280 | 0.616 | 0.013 | 280.9 | 279.7 | 281.2 | 280.7 |
| 14 | 762.00 | 0.00 | -72.00 | 51.348 | 0.780 | 0.015 | 280.8 | 279.6 | 281.2 | 280.6 |
| 15 | 762.00 | 0.00 | -68.00 | 51.302 | 1.074 | 0.016 | 280.8 | 279.6 | 281.2 | 280.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 762.00 | 0.00 | -64.00 | 51.385 | 1.212 | 0.015 | 280.7 | 279.6 | 281.1 | 280.1 |
| 17 | 762.00 | 0.00 | -60.00 | 51.241 | 1.400 | 0.014 | 280.7 | 279.6 | 281.2 | 280.1 |
| 18 | 762.00 | 0.00 | -56.00 | 51.221 | 1.628 | 0.014 | 280.7 | 279.6 | 280.4 | 279.1 |
| 19 | 762.00 | 0.00 | -52.00 | 51.218 | 1.914 | 0.013 | 280.6 | 279.6 | 281.4 | 279.9 |
| 20 | 762.00 | 0.00 | -48.00 | 51.226 | 2.005 | 0.015 | 280.7 | 279.6 | 282.8 | 281.2 |
| 21 | 762.00 | 0.00 | -44.00 | 51.273 | 2.448 | 0.014 | 280.6 | 279.6 | 280.0 | 278.0 |
| 22 | 762.00 | 0.00 | -40.00 | 51.155 | 2.663 | 0.014 | 280.6 | 279.6 | 281.1 | 279.0 |
| 23 | 762.00 | 0.00 | -36.00 | 51.054 | 3.129 | 0.012 | 280.6 | 279.6 | 281.0 | 278.5 |
| 24 | 762.00 | 0.00 | -32.00 | 51.252 | 3.502 | 0.013 | 280.6 | 279.6 | 305.5 | 302.5 |
| 25 | 762.00 | 0.00 | -28.00 | 51.431 | 3.810 | 0.013 | 280.5 | 279.6 | 280.6 | 277.6 |
| 26 | 762.00 | 0.00 | -24.00 | 51.404 | 4.168 | 0.012 | 280.6 | 279.6 | 291.7 | 288.3 |
| 27 | 762.00 | 0.00 | -20.00 | 51.177 | 4.392 | 0.012 | 280.5 | 279.5 | 278.1 | 274.6 |
| 28 | 762.00 | 0.00 | -16.00 | 51.083 | 4.709 | 0.013 | 280.5 | 279.5 | 296.8 | 292.9 |
| 29 | 762.00 | 0.00 | -12.00 | 51.150 | 4.807 | 0.012 | 280.5 | 279.5 | 281.9 | 278.1 |
| 30 | 762.00 | 0.00 | -8.00 | 51.171 | 5.067 | 0.013 | 280.5 | 279.5 | 278.9 | 274.9 |
| 31 | 762.00 | 0.00 | -4.00 | 51.008 | 5.350 | 0.012 | 280.5 | 279.5 | 286.7 | 282.4 |
| 32 | 762.00 | 0.00 | 0.00 | 51.044 | 5.211 | 0.012 | 280.5 | 279.5 | 270.8 | 266.8 |
| 33 | 762.00 | 0.00 | 4.00 | 51.124 | 5.186 | 0.013 | 280.5 | 279.5 | 264.9 | 261.0 |
| 34 | 762.00 | 0.00 | 8.00 | 51.100 | 5.104 | 0.014 | 280.4 | 279.5 | 279.9 | 275.9 |
| 35 | 762.00 | 0.00 | 12.00 | 51.115 | 4.819 | 0.013 | 280.4 | 279.5 | 287.8 | 283.9 |
| 36 | 762.00 | 0.00 | 16.00 | 51.161 | 4.737 | 0.014 | 280.4 | 279.5 | 265.5 | 262.0 |
| 37 | 762.00 | 0.00 | 20.00 | 51.276 | 4.429 | 0.015 | 280.3 | 279.5 | 280.1 | 276.6 |

File : TAB290T

30-JAN-89
30-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG I(B)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.833 kPa

Mean gauged plenum pressure : 51.022 kPa
RMS gauged plenum pressure : 0.180 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 762.00 | -160.00 | 0.00 | 50.956 | 0.018 | 0.012 | 285.7 | 280.9 | 285.3 | 285.3 |
| 3 | 762.00 | -152.00 | 0.00 | 50.975 | 0.024 | 0.013 | 285.6 | 280.9 | 285.4 | 285.4 |
| 4 | 762.00 | -144.00 | 0.00 | 50.969 | 0.056 | 0.013 | 285.6 | 280.9 | 285.5 | 285.5 |
| 5 | 762.00 | -136.00 | 0.00 | 51.204 | 0.140 | 0.014 | 285.6 | 280.9 | 285.5 | 285.4 |
| 6 | 762.00 | -128.00 | 0.00 | 51.118 | 0.266 | 0.014 | 285.7 | 280.9 | 285.6 | 285.4 |
| 7 | 762.00 | -120.00 | 0.00 | 51.226 | 0.487 | 0.014 | 285.7 | 280.9 | 285.6 | 285.2 |
| 8 | 762.00 | -112.00 | 0.00 | 50.986 | 0.723 | 0.014 | 285.7 | 280.9 | 285.6 | 285.0 |
| 9 | 762.00 | -104.00 | 0.00 | 50.788 | 1.142 | 0.016 | 285.7 | 280.9 | 285.6 | 284.7 |
| 10 | 762.00 | -96.00 | 0.00 | 50.761 | 1.515 | 0.015 | 285.7 | 280.8 | 285.5 | 284.2 |
| 11 | 762.00 | -88.00 | 0.00 | 50.831 | 2.158 | 0.016 | 285.7 | 280.9 | 285.5 | 283.7 |
| 12 | 762.00 | -80.00 | 0.00 | 51.090 | 2.912 | 0.017 | 285.7 | 280.8 | 282.7 | 280.3 |
| 13 | 762.00 | -72.00 | 0.00 | 51.220 | 3.656 | 0.016 | 285.7 | 280.9 | 274.4 | 271.5 |
| 14 | 762.00 | -64.00 | 0.00 | 51.499 | 4.421 | 0.015 | 285.7 | 280.9 | 288.4 | 284.8 |
| 15 | 762.00 | -56.00 | 0.00 | 51.104 | 4.888 | 0.017 | 285.7 | 280.9 | 251.6 | 248.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 762.00 | -48.00 | 0.00 | 51.124 | 5.194 | 0.017 | 285.7 | 280.9 | 285.3 | 281.1 |
| 17 | 762.00 | -40.00 | 0.00 | 51.037 | 5.601 | 0.020 | 285.7 | 280.9 | 291.2 | 286.6 |
| 18 | 762.00 | -32.00 | 0.00 | 50.893 | 5.658 | 0.019 | 285.7 | 280.8 | 284.9 | 280.4 |
| 19 | 762.00 | -24.00 | 0.00 | 50.769 | 5.613 | 0.022 | 285.8 | 280.8 | 286.6 | 282.1 |
| 20 | 762.00 | -16.00 | 0.00 | 50.685 | 5.318 | 0.017 | 285.8 | 280.8 | 298.2 | 293.7 |
| 21 | 762.00 | -8.00 | 0.00 | 51.087 | 5.264 | 0.024 | 285.8 | 280.8 | 286.4 | 282.1 |
| 22 | 762.00 | 0.00 | 0.00 | 51.112 | 5.177 | 0.019 | 285.8 | 280.8 | 304.5 | 300.0 |
| 23 | 762.00 | 8.00 | 0.00 | 51.168 | 5.261 | 0.022 | 285.8 | 280.8 | 310.9 | 306.3 |
| 24 | 762.00 | 16.00 | 0.00 | 51.199 | 5.468 | 0.024 | 285.9 | 280.8 | 313.2 | 308.4 |
| 25 | 762.00 | 24.00 | 0.00 | 51.071 | 5.577 | 0.024 | 285.8 | 280.8 | 322.6 | 317.5 |
| 26 | 762.00 | 32.00 | 0.00 | 51.033 | 5.694 | 0.021 | 285.9 | 280.8 | 0.0 | 0.0 |
| 27 | 762.00 | 40.00 | 0.00 | 50.952 | 5.505 | 0.022 | 285.9 | 280.8 | 282.6 | 278.2 |
| 28 | 762.00 | 48.00 | 0.00 | 50.913 | 5.273 | 0.024 | 285.9 | 280.8 | 83.4 | 82.2 |
| 29 | 762.00 | 56.00 | 0.00 | 50.809 | 4.899 | 0.021 | 285.9 | 280.8 | 199.9 | 197.1 |
| 30 | 762.00 | 64.00 | 0.00 | 50.935 | 4.062 | 0.024 | 285.9 | 280.8 | 101.4 | 100.2 |
| 31 | 762.00 | 72.00 | 0.00 | 51.137 | 3.233 | 0.024 | 285.9 | 280.8 | 197.2 | 195.4 |
| 32 | 762.00 | 80.00 | 0.00 | 51.025 | 2.698 | 0.024 | 285.9 | 280.8 | 348.1 | 345.4 |
| 33 | 762.00 | 88.00 | 0.00 | 51.126 | 2.120 | 0.022 | 285.9 | 280.8 | 282.5 | 280.8 |
| 34 | 762.00 | 96.00 | 0.00 | 51.058 | 1.496 | 0.022 | 286.0 | 280.8 | 157.4 | 156.7 |
| 35 | 762.00 | 104.00 | 0.00 | 51.284 | 1.189 | 0.020 | 286.0 | 280.8 | 285.2 | 284.2 |
| 36 | 762.00 | 112.00 | 0.00 | 51.070 | 0.805 | 0.023 | 286.0 | 280.8 | 285.6 | 284.9 |
| 37 | 762.00 | 120.00 | 0.00 | 50.961 | 0.430 | 0.021 | 286.1 | 280.8 | 286.5 | 286.1 |
| 38 | 762.00 | 128.00 | 0.00 | 50.966 | 0.238 | 0.021 | 286.5 | 280.8 | 285.7 | 285.5 |
| 39 | 762.00 | 136.00 | 0.00 | 50.949 | 0.190 | 0.022 | 286.7 | 280.8 | 285.8 | 285.6 |
| 40 | 762.00 | 144.00 | 0.00 | 50.913 | 0.076 | 0.028 | 286.6 | 280.8 | 285.8 | 285.7 |
| 41 | 762.00 | 152.00 | 0.00 | 50.850 | 0.052 | 0.026 | 287.0 | 280.8 | 285.9 | 285.9 |
| 42 | 762.00 | 160.00 | 0.00 | 50.820 | 0.013 | 0.022 | 286.8 | 280.8 | 285.9 | 285.9 |

File : TAB295T 1-FEB-89
1-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE'

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, 0 DEG
CONFIG I(B)

C1 : X/D = 13
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.968 kPa

Mean gauged plenum pressure : 50.965 kPa
RMS gauged plenum pressure : 0.157 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | -160.00 | 0.00 | 50.713 | 0.013 | 0.012 | 287.0 | 281.5 | 286.3 | 286.3 |
| 3 | 660.40 | -152.00 | 0.00 | 50.959 | 0.013 | 0.011 | 287.0 | 281.5 | 286.4 | 286.4 |
| 4 | 660.40 | -144.00 | 0.00 | 50.909 | 0.014 | 0.012 | 287.0 | 281.5 | 286.5 | 286.5 |
| 5 | 660.40 | -136.00 | 0.00 | 50.916 | 0.045 | 0.012 | 287.0 | 281.5 | 286.6 | 286.6 |
| 6 | 660.40 | -128.00 | 0.00 | 51.133 | 0.148 | 0.012 | 287.0 | 281.5 | 286.7 | 286.6 |
| 7 | 660.40 | -120.00 | 0.00 | 51.147 | 0.369 | 0.012 | 287.0 | 281.5 | 286.6 | 286.3 |
| 8 | 660.40 | -112.00 | 0.00 | 51.132 | 0.564 | 0.012 | 287.0 | 281.5 | 286.7 | 286.2 |
| 9 | 660.40 | -104.00 | 0.00 | 51.041 | 0.965 | 0.012 | 287.0 | 281.5 | 286.7 | 285.9 |
| 10 | 660.40 | -96.00 | 0.00 | 50.839 | 1.555 | 0.012 | 287.1 | 281.4 | 286.7 | 285.4 |
| 11 | 660.40 | -88.00 | 0.00 | 50.495 | 2.294 | 0.012 | 287.1 | 281.4 | 286.3 | 284.4 |
| 12 | 660.40 | -80.00 | 0.00 | 51.103 | 3.142 | 0.012 | 287.1 | 281.4 | 286.7 | 284.1 |
| 13 | 660.40 | -72.00 | 0.00 | 50.853 | 3.930 | 0.012 | 287.1 | 281.5 | 286.3 | 283.1 |
| 14 | 660.40 | -64.00 | 0.00 | 50.814 | 5.399 | 0.012 | 287.2 | 281.5 | 288.1 | 283.7 |
| 15 | 660.40 | -56.00 | 0.00 | 50.930 | 6.501 | 0.012 | 287.2 | 281.5 | 286.0 | 280.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | -48.00 | 0.00 | 51.061 | 7.157 | 0.012 | 287.1 | 281.5 | 295.5 | 289.6 |
| 17 | 660.40 | -40.00 | 0.00 | 51.171 | 7.757 | 0.012 | 287.1 | 281.5 | 285.8 | 279.6 |
| 18 | 660.40 | -32.00 | 0.00 | 50.949 | 7.700 | 0.012 | 287.0 | 281.4 | 280.9 | 274.9 |
| 19 | 660.40 | -24.00 | 0.00 | 50.923 | 7.449 | 0.012 | 287.0 | 281.4 | 284.9 | 279.0 |
| 20 | 660.40 | -16.00 | 0.00 | 50.831 | 6.965 | 0.012 | 287.0 | 281.4 | 284.4 | 278.9 |
| 21 | 660.40 | -8.00 | 0.00 | 50.938 | 6.669 | 0.012 | 287.0 | 281.4 | 295.3 | 289.8 |
| 22 | 660.40 | 0.00 | 0.00 | 50.819 | 6.495 | 0.012 | 287.1 | 281.4 | 282.1 | 277.0 |
| 23 | 660.40 | 8.00 | 0.00 | 50.784 | 6.470 | 0.012 | 287.1 | 281.4 | 289.8 | 284.5 |
| 24 | 660.40 | 16.00 | 0.00 | 50.788 | 6.954 | 0.012 | 287.1 | 281.4 | 0.0 | 0.0 |
| 25 | 660.40 | 24.00 | 0.00 | 50.968 | 7.552 | 0.013 | 287.0 | 281.4 | 0.0 | 0.0 |
| 26 | 660.40 | 32.00 | 0.00 | 50.994 | 8.011 | 0.012 | 287.1 | 281.4 | 108.4 | 106.0 |
| 27 | 660.40 | 40.00 | 0.00 | 51.070 | 7.939 | 0.014 | 287.2 | 281.4 | 0.0 | 0.0 |
| 28 | 660.40 | 48.00 | 0.00 | 51.140 | 7.340 | 0.013 | 287.2 | 281.3 | 0.0 | 0.0 |
| 29 | 660.40 | 56.00 | 0.00 | 50.986 | 6.588 | 0.013 | 287.2 | 281.4 | 0.0 | 0.0 |
| 30 | 660.40 | 64.00 | 0.00 | 51.001 | 5.206 | 0.014 | 287.2 | 281.4 | 0.0 | 0.0 |
| 31 | 660.40 | 72.00 | 0.00 | 51.024 | 4.183 | 0.014 | 287.3 | 281.4 | 0.0 | 0.0 |
| 32 | 660.40 | 80.00 | 0.00 | 51.004 | 2.896 | 0.014 | 287.7 | 281.4 | 0.0 | 0.0 |
| 33 | 660.40 | 88.00 | 0.00 | 50.953 | 2.157 | 0.016 | 288.2 | 281.4 | 103.8 | 103.2 |
| 34 | 660.40 | 96.00 | 0.00 | 50.973 | 1.323 | 0.014 | 288.3 | 281.4 | 0.0 | 0.0 |
| 35 | 660.40 | 104.00 | 0.00 | 50.986 | 0.866 | 0.015 | 288.2 | 281.3 | 0.0 | 0.0 |
| 36 | 660.40 | 112.00 | 0.00 | 51.030 | 0.676 | 0.017 | 288.1 | 281.4 | 0.0 | 0.0 |
| 37 | 660.40 | 120.00 | 0.00 | 51.060 | 0.320 | 0.013 | 287.7 | 281.3 | 0.0 | 0.0 |
| 38 | 660.40 | 128.00 | 0.00 | 51.112 | 0.172 | 0.017 | 287.6 | 281.4 | 0.0 | 0.0 |
| 39 | 660.40 | 136.00 | 0.00 | 51.172 | 0.057 | 0.019 | 287.4 | 281.4 | 0.0 | 0.0 |
| 40 | 660.40 | 144.00 | 0.00 | 50.833 | 0.030 | 0.016 | 287.5 | 281.4 | 0.0 | 0.0 |
| 41 | 660.40 | 152.00 | 0.00 | 50.863 | 0.014 | 0.018 | 287.4 | 281.4 | 0.0 | 0.0 |
| 42 | 660.40 | 160.00 | 0.00 | 50.858 | 0.013 | 0.021 | 287.5 | 281.4 | 0.0 | 0.0 |

File : TAB294T 1-FEB-89
1-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB, 90 DEG
CONFIG I(B)

C1 : X/D = 13
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.968 kPa

Mean gauged plenum pressure : 51.043 kPa
RMS gauged plenum pressure : 0.221 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | 0.00 | -120.00 | 51.160 | 0.136 | 0.036 | 284.3 | 280.9 | 284.1 | 284.0 |
| 3 | 660.40 | 0.00 | -116.00 | 51.180 | 0.138 | 0.038 | 284.3 | 280.9 | 284.1 | 284.0 |
| 4 | 660.40 | 0.00 | -112.00 | 51.194 | 0.130 | 0.037 | 284.2 | 280.9 | 284.1 | 284.0 |
| 5 | 660.40 | 0.00 | -108.00 | 51.103 | 0.128 | 0.039 | 284.3 | 280.9 | 284.1 | 284.0 |
| 6 | 660.40 | 0.00 | -104.00 | 50.954 | 0.131 | 0.042 | 284.2 | 280.9 | 284.1 | 284.0 |
| 7 | 660.40 | 0.00 | -100.00 | 50.975 | 0.150 | 0.036 | 284.2 | 280.9 | 284.1 | 284.0 |
| 8 | 660.40 | 0.00 | -96.00 | 50.877 | 0.180 | 0.046 | 284.3 | 280.9 | 284.1 | 284.0 |
| 9 | 660.40 | 0.00 | -92.00 | 51.000 | 0.194 | 0.045 | 284.3 | 281.0 | 284.1 | 283.9 |
| 10 | 660.40 | 0.00 | -88.00 | 51.148 | 0.231 | 0.050 | 284.3 | 281.0 | 284.1 | 283.9 |
| 11 | 660.40 | 0.00 | -84.00 | 51.212 | 0.309 | 0.050 | 284.2 | 281.0 | 284.1 | 283.8 |
| 12 | 660.40 | 0.00 | -80.00 | 51.248 | 0.387 | 0.048 | 284.2 | 281.0 | 284.1 | 283.8 |
| 13 | 660.40 | 0.00 | -76.00 | 51.508 | 0.498 | 0.049 | 284.2 | 281.0 | 284.1 | 283.7 |
| 14 | 660.40 | 0.00 | -72.00 | 51.001 | 0.595 | 0.048 | 284.2 | 281.0 | 284.1 | 283.6 |
| 15 | 660.40 | 0.00 | -68.00 | 50.839 | 0.807 | 0.051 | 284.2 | 281.0 | 284.1 | 283.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | 0.00 | -64.00 | 51.172 | 0.942 | 0.045 | 284.2 | 281.0 | 284.1 | 283.3 |
| 17 | 660.40 | 0.00 | -60.00 | 51.290 | 1.085 | 0.044 | 284.2 | 281.0 | 284.1 | 283.2 |
| 18 | 660.40 | 0.00 | -56.00 | 51.167 | 1.309 | 0.047 | 284.2 | 281.0 | 284.1 | 283.0 |
| 19 | 660.40 | 0.00 | -52.00 | 51.014 | 1.664 | 0.050 | 284.2 | 281.0 | 284.1 | 282.7 |
| 20 | 660.40 | 0.00 | -48.00 | 51.032 | 1.957 | 0.051 | 284.2 | 281.0 | 284.1 | 282.5 |
| 21 | 660.40 | 0.00 | -44.00 | 50.822 | 2.357 | 0.052 | 284.2 | 281.0 | 284.1 | 282.2 |
| 22 | 660.40 | 0.00 | -40.00 | 50.842 | 2.744 | 0.051 | 284.2 | 281.0 | 284.1 | 281.9 |
| 23 | 660.40 | 0.00 | -36.00 | 50.597 | 3.148 | 0.044 | 284.2 | 281.0 | 284.1 | 281.5 |
| 24 | 660.40 | 0.00 | -32.00 | 51.107 | 3.559 | 0.046 | 284.1 | 281.0 | 284.1 | 281.2 |
| 25 | 660.40 | 0.00 | -28.00 | 51.303 | 4.162 | 0.039 | 284.1 | 281.0 | 284.0 | 280.6 |
| 26 | 660.40 | 0.00 | -24.00 | 51.006 | 4.889 | 0.041 | 284.1 | 281.0 | 284.0 | 280.1 |
| 27 | 660.40 | 0.00 | -20.00 | 51.182 | 5.201 | 0.042 | 284.1 | 280.9 | 284.0 | 279.8 |
| 28 | 660.40 | 0.00 | -16.00 | 51.185 | 5.534 | 0.043 | 284.1 | 280.9 | 284.0 | 279.6 |
| 29 | 660.40 | 0.00 | -12.00 | 51.087 | 5.865 | 0.042 | 284.1 | 281.0 | 284.0 | 279.3 |
| 30 | 660.40 | 0.00 | -8.00 | 50.981 | 6.151 | 0.032 | 284.2 | 280.9 | 284.0 | 279.1 |
| 31 | 660.40 | 0.00 | -4.00 | 50.992 | 6.422 | 0.035 | 284.2 | 280.9 | 283.9 | 278.8 |
| 32 | 660.40 | 0.00 | 0.00 | 51.024 | 6.443 | 0.030 | 284.2 | 280.9 | 283.9 | 278.8 |
| 33 | 660.40 | 0.00 | 4.00 | 50.927 | 6.382 | 0.029 | 284.2 | 280.9 | 284.0 | 278.9 |
| 34 | 660.40 | 0.00 | 8.00 | 50.902 | 6.242 | 0.029 | 284.2 | 280.9 | 283.8 | 278.8 |
| 35 | 660.40 | 0.00 | 12.00 | 50.996 | 5.986 | 0.025 | 284.3 | 280.9 | 283.8 | 279.0 |
| 36 | 660.40 | 0.00 | 16.00 | 51.139 | 5.656 | 0.023 | 284.3 | 280.9 | 283.7 | 279.2 |
| 37 | 660.40 | 0.00 | 20.00 | 51.144 | 5.173 | 0.025 | 284.3 | 280.9 | 283.4 | 279.3 |

File : TAB291T 31-JAN-89
31-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG I(B)

C1 : X/D = 13
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.070 kPa

Mean gauged plenum pressure : 51.063 kPa
RMS gauged plenum pressure : 0.182 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | -160.00 | 0.00 | 50.640 | 0.048 | 0.031 | 277.9 | 279.3 | 278.0 | 278.0 |
| 3 | 660.40 | -152.00 | 0.00 | 50.884 | 0.045 | 0.033 | 277.9 | 279.4 | 278.1 | 278.1 |
| 4 | 660.40 | -144.00 | 0.00 | 51.274 | 0.051 | 0.029 | 277.9 | 279.5 | 278.1 | 278.1 |
| 5 | 660.40 | -136.00 | 0.00 | 51.299 | 0.065 | 0.028 | 277.9 | 279.6 | 278.1 | 278.0 |
| 6 | 660.40 | -128.00 | 0.00 | 51.263 | 0.156 | 0.031 | 278.0 | 279.6 | 278.1 | 278.0 |
| 7 | 660.40 | -120.00 | 0.00 | 51.063 | 0.268 | 0.032 | 278.1 | 279.7 | 278.2 | 278.0 |
| 8 | 660.40 | -112.00 | 0.00 | 50.873 | 0.522 | 0.033 | 278.1 | 279.7 | 278.2 | 277.8 |
| 9 | 660.40 | -104.00 | 0.00 | 50.805 | 0.804 | 0.034 | 278.1 | 279.8 | 278.3 | 277.7 |
| 10 | 660.40 | -96.00 | 0.00 | 51.030 | 1.276 | 0.038 | 278.2 | 279.8 | 278.3 | 277.3 |
| 11 | 660.40 | -88.00 | 0.00 | 50.945 | 2.022 | 0.040 | 278.2 | 279.9 | 278.2 | 276.6 |
| 12 | 660.40 | -80.00 | 0.00 | 50.985 | 2.761 | 0.038 | 278.3 | 279.9 | 278.3 | 276.1 |
| 13 | 660.40 | -72.00 | 0.00 | 51.160 | 3.463 | 0.037 | 278.3 | 279.9 | 278.3 | 275.5 |
| 14 | 660.40 | -64.00 | 0.00 | 51.193 | 4.669 | 0.041 | 278.4 | 280.0 | 278.2 | 274.5 |
| 15 | 660.40 | -56.00 | 0.00 | 51.289 | 5.545 | 0.038 | 278.5 | 280.0 | 278.3 | 274.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | -48.00 | 0.00 | 51.314 | 6.857 | 0.044 | 278.4 | 280.0 | 278.3 | 273.0 |
| 17 | 660.40 | -40.00 | 0.00 | 51.243 | 7.291 | 0.043 | 278.5 | 280.0 | 278.2 | 272.5 |
| 18 | 660.40 | -32.00 | 0.00 | 51.074 | 7.511 | 0.042 | 278.6 | 280.0 | 279.3 | 273.5 |
| 19 | 660.40 | -24.00 | 0.00 | 50.922 | 7.142 | 0.044 | 278.6 | 280.0 | 276.6 | 271.1 |
| 20 | 660.40 | -16.00 | 0.00 | 50.828 | 6.859 | 0.041 | 278.6 | 280.0 | 275.6 | 270.3 |
| 21 | 660.40 | -8.00 | 0.00 | 50.917 | 6.603 | 0.045 | 278.7 | 280.1 | 270.0 | 265.0 |
| 22 | 660.40 | 0.00 | 0.00 | 50.984 | 6.464 | 0.043 | 278.7 | 280.1 | 280.0 | 274.9 |
| 23 | 660.40 | 8.00 | 0.00 | 51.107 | 6.582 | 0.045 | 278.7 | 280.1 | 300.0 | 294.5 |
| 24 | 660.40 | 16.00 | 0.00 | 51.270 | 7.002 | 0.046 | 278.7 | 280.1 | 274.3 | 268.9 |
| 25 | 660.40 | 24.00 | 0.00 | 51.420 | 7.536 | 0.043 | 278.8 | 280.1 | 276.9 | 271.1 |
| 26 | 660.40 | 32.00 | 0.00 | 51.279 | 7.679 | 0.047 | 278.8 | 280.1 | 274.6 | 268.7 |
| 27 | 660.40 | 40.00 | 0.00 | 51.132 | 7.616 | 0.045 | 278.9 | 280.1 | 274.3 | 268.5 |
| 28 | 660.40 | 48.00 | 0.00 | 51.020 | 6.944 | 0.042 | 278.9 | 280.1 | 88.6 | 86.9 |
| 29 | 660.40 | 56.00 | 0.00 | 50.848 | 5.967 | 0.044 | 278.9 | 280.1 | 0.0 | 0.0 |
| 30 | 660.40 | 64.00 | 0.00 | 50.674 | 4.636 | 0.047 | 279.1 | 280.1 | 0.0 | 0.0 |
| 31 | 660.40 | 72.00 | 0.00 | 50.828 | 3.641 | 0.042 | 279.1 | 280.1 | 90.4 | 89.5 |
| 32 | 660.40 | 80.00 | 0.00 | 50.911 | 2.658 | 0.043 | 279.2 | 280.1 | 0.0 | 0.0 |
| 33 | 660.40 | 88.00 | 0.00 | 51.150 | 1.929 | 0.041 | 279.2 | 280.1 | 92.9 | 92.4 |
| 34 | 660.40 | 96.00 | 0.00 | 51.154 | 1.325 | 0.037 | 279.3 | 280.1 | 93.0 | 92.6 |
| 35 | 660.40 | 104.00 | 0.00 | 51.181 | 0.837 | 0.041 | 279.3 | 280.1 | 279.0 | 278.3 |
| 36 | 660.40 | 112.00 | 0.00 | 51.174 | 0.503 | 0.036 | 279.4 | 280.1 | 0.0 | 0.0 |
| 37 | 660.40 | 120.00 | 0.00 | 51.144 | 0.322 | 0.034 | 279.4 | 280.1 | 0.0 | 0.0 |
| 38 | 660.40 | 128.00 | 0.00 | 51.155 | 0.190 | 0.037 | 279.4 | 280.1 | 0.0 | 0.0 |
| 39 | 660.40 | 136.00 | 0.00 | 51.111 | 0.092 | 0.033 | 279.5 | 280.1 | 0.0 | 0.0 |
| 40 | 660.40 | 144.00 | 0.00 | 51.050 | 0.019 | 0.033 | 279.6 | 280.1 | 0.0 | 0.0 |
| 41 | 660.40 | 152.00 | 0.00 | 51.037 | 0.014 | 0.030 | 279.7 | 280.1 | 0.0 | 0.0 |
| 42 | 660.40 | 160.00 | 0.00 | 51.047 | 0.013 | 0.026 | 279.8 | 280.1 | 0.0 | 0.0 |

File : TAB298T 2-FEB-89
2-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG I(B)

C1 : X/D = 11
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.273 kPa

Mean gauged plenum pressure : 51.390 kPa
RMS gauged plenum pressure : 0.059 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 558.80 | -160.00 | 0.00 | 51.413 | 0.052 | 0.021 | 292.5 | 282.8 | 292.4 | 292.4 |
| 3 | 558.80 | -152.00 | 0.00 | 51.408 | 0.034 | 0.022 | 292.6 | 282.8 | 292.4 | 292.4 |
| 4 | 558.80 | -144.00 | 0.00 | 51.434 | 0.019 | 0.024 | 292.5 | 282.8 | 292.4 | 292.4 |
| 5 | 558.80 | -136.00 | 0.00 | 51.443 | 0.030 | 0.022 | 292.5 | 282.8 | 292.3 | 292.3 |
| 6 | 558.80 | -128.00 | 0.00 | 51.429 | 0.073 | 0.027 | 292.5 | 282.8 | 292.3 | 292.2 |
| 7 | 558.80 | -120.00 | 0.00 | 51.413 | 0.200 | 0.028 | 292.5 | 282.8 | 292.4 | 292.2 |
| 8 | 558.80 | -112.00 | 0.00 | 51.413 | 0.380 | 0.022 | 292.5 | 282.8 | 292.4 | 292.1 |
| 9 | 558.80 | -104.00 | 0.00 | 51.352 | 0.844 | 0.021 | 292.6 | 282.7 | 292.4 | 291.7 |
| 10 | 558.80 | -96.00 | 0.00 | 51.332 | 1.257 | 0.024 | 292.6 | 282.7 | 292.4 | 291.3 |
| 11 | 558.80 | -88.00 | 0.00 | 51.320 | 2.096 | 0.023 | 292.6 | 282.7 | 292.4 | 290.6 |
| 12 | 558.80 | -80.00 | 0.00 | 51.333 | 3.309 | 0.020 | 292.5 | 282.7 | 292.3 | 289.5 |
| 13 | 558.80 | -72.00 | 0.00 | 51.333 | 4.566 | 0.021 | 292.6 | 282.6 | 292.3 | 288.5 |
| 14 | 558.80 | -64.00 | 0.00 | 51.315 | 6.132 | 0.027 | 292.5 | 282.6 | 292.3 | 287.3 |
| 15 | 558.80 | -56.00 | 0.00 | 51.319 | 7.792 | 0.022 | 292.6 | 282.7 | 292.3 | 286.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 558.80 | -48.00 | 0.00 | 51.280 | 9.370 | 0.020 | 292.6 | 282.6 | 292.3 | 284.8 |
| 17 | 558.80 | -40.00 | 0.00 | 51.278 | 10.538 | 0.021 | 292.6 | 282.6 | 292.3 | 283.9 |
| 18 | 558.80 | -32.00 | 0.00 | 51.340 | 10.837 | 0.022 | 292.7 | 282.6 | 292.5 | 283.9 |
| 19 | 558.80 | -24.00 | 0.00 | 51.334 | 10.216 | 0.022 | 293.1 | 282.6 | 292.3 | 284.1 |
| 20 | 558.80 | -16.00 | 0.00 | 51.335 | 9.162 | 0.021 | 293.4 | 282.6 | 292.3 | 284.9 |
| 21 | 558.80 | -8.00 | 0.00 | 51.318 | 8.277 | 0.020 | 293.6 | 282.6 | 292.3 | 285.6 |
| 22 | 558.80 | 0.00 | 0.00 | 51.352 | 7.917 | 0.019 | 293.5 | 282.6 | 292.4 | 286.0 |
| 23 | 558.80 | 8.00 | 0.00 | 51.371 | 8.503 | 0.018 | 293.6 | 282.6 | 292.5 | 285.6 |
| 24 | 558.80 | 16.00 | 0.00 | 51.374 | 9.345 | 0.020 | 293.2 | 282.6 | 292.4 | 284.9 |
| 25 | 558.80 | 24.00 | 0.00 | 51.395 | 10.240 | 0.016 | 293.4 | 282.6 | 292.4 | 284.2 |
| 26 | 558.80 | 32.00 | 0.00 | 51.374 | 10.859 | 0.017 | 293.0 | 282.6 | 292.4 | 283.8 |
| 27 | 558.80 | 40.00 | 0.00 | 51.433 | 10.320 | 0.019 | 292.9 | 282.6 | 292.3 | 284.1 |
| 28 | 558.80 | 48.00 | 0.00 | 51.446 | 8.884 | 0.016 | 292.7 | 282.5 | 292.3 | 285.2 |
| 29 | 558.80 | 56.00 | 0.00 | 51.435 | 7.001 | 0.014 | 292.6 | 282.5 | 292.3 | 286.6 |
| 30 | 558.80 | 64.00 | 0.00 | 51.417 | 5.167 | 0.014 | 292.6 | 282.5 | 292.3 | 288.0 |
| 31 | 558.80 | 72.00 | 0.00 | 51.370 | 3.602 | 0.016 | 292.6 | 282.6 | 292.3 | 289.3 |
| 32 | 558.80 | 80.00 | 0.00 | 51.408 | 2.329 | 0.016 | 292.6 | 282.5 | 292.3 | 290.3 |
| 33 | 558.80 | 88.00 | 0.00 | 51.384 | 1.606 | 0.014 | 292.5 | 282.6 | 292.3 | 290.9 |
| 34 | 558.80 | 96.00 | 0.00 | 51.362 | 0.920 | 0.014 | 292.5 | 282.6 | 292.3 | 291.5 |
| 35 | 558.80 | 104.00 | 0.00 | 51.459 | 0.510 | 0.013 | 292.5 | 282.6 | 292.3 | 291.9 |
| 36 | 558.80 | 112.00 | 0.00 | 51.454 | 0.271 | 0.014 | 292.5 | 282.6 | 292.3 | 292.1 |
| 37 | 558.80 | 120.00 | 0.00 | 51.566 | 0.065 | 0.014 | 292.5 | 282.6 | 292.3 | 292.2 |
| 38 | 558.80 | 128.00 | 0.00 | 51.465 | 0.013 | 0.014 | 292.5 | 282.6 | 292.3 | 292.3 |
| 39 | 558.80 | 136.00 | 0.00 | 51.449 | 0.012 | 0.015 | 292.5 | 282.6 | 292.3 | 292.3 |
| 40 | 558.80 | 144.00 | 0.00 | 51.426 | 0.012 | 0.015 | 292.5 | 282.5 | 292.3 | 292.3 |
| 41 | 558.80 | 152.00 | 0.00 | 51.386 | 0.012 | 0.015 | 292.5 | 282.5 | 292.3 | 292.3 |
| 42 | 558.80 | 160.00 | 0.00 | 51.439 | 0.012 | 0.015 | 292.5 | 282.5 | 292.3 | 292.3 |

File : TAB299T 2-FEB-89
2-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG I(B)

C1 : X/D = 11
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.205 kPa

Mean gauged plenum pressure : 51.546 kPa
RMS gauged plenum pressure : 0.037 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 558.80 | 0.00 | -120.00 | 51.504 | 0.014 | 0.015 | 293.5 | 282.5 | 292.6 | 292.6 |
| 3 | 558.80 | 0.00 | -116.00 | 51.547 | 0.013 | 0.013 | 293.3 | 282.5 | 292.5 | 292.5 |
| 4 | 558.80 | 0.00 | -112.00 | 51.546 | 0.013 | 0.014 | 292.9 | 282.5 | 292.5 | 292.5 |
| 5 | 558.80 | 0.00 | -108.00 | 51.466 | 0.012 | 0.016 | 292.7 | 282.4 | 292.5 | 292.5 |
| 6 | 558.80 | 0.00 | -104.00 | 51.502 | 0.012 | 0.018 | 292.7 | 282.5 | 292.5 | 292.5 |
| 7 | 558.80 | 0.00 | -100.00 | 51.497 | 0.011 | 0.014 | 292.7 | 282.5 | 292.5 | 292.5 |
| 8 | 558.80 | 0.00 | -96.00 | 51.500 | 0.010 | 0.013 | 292.7 | 282.5 | 292.5 | 292.5 |
| 9 | 558.80 | 0.00 | -92.00 | 51.507 | 0.012 | 0.013 | 292.7 | 282.5 | 292.5 | 292.5 |
| 10 | 558.80 | 0.00 | -88.00 | 51.517 | 0.014 | 0.013 | 292.7 | 282.5 | 292.5 | 292.5 |
| 11 | 558.80 | 0.00 | -84.00 | 51.522 | 0.036 | 0.013 | 292.6 | 282.4 | 292.5 | 292.5 |
| 12 | 558.80 | 0.00 | -80.00 | 51.530 | 0.082 | 0.014 | 292.6 | 282.4 | 292.5 | 292.4 |
| 13 | 558.80 | 0.00 | -76.00 | 51.515 | 0.170 | 0.014 | 292.6 | 282.4 | 292.5 | 292.4 |
| 14 | 558.80 | 0.00 | -72.00 | 51.532 | 0.295 | 0.013 | 292.6 | 282.4 | 292.5 | 292.2 |
| 15 | 558.80 | 0.00 | -68.00 | 51.539 | 0.393 | 0.014 | 292.6 | 282.4 | 292.4 | 292.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 558.80 | 0.00 | -64.00 | 51.555 | 0.663 | 0.013 | 292.6 | 282.4 | 292.5 | 291.9 |
| 17 | 558.80 | 0.00 | -60.00 | 51.566 | 0.872 | 0.014 | 292.6 | 282.3 | 292.4 | 291.7 |
| 18 | 558.80 | 0.00 | -56.00 | 51.587 | 1.163 | 0.014 | 292.6 | 282.4 | 292.4 | 291.4 |
| 19 | 558.80 | 0.00 | -52.00 | 51.588 | 1.524 | 0.013 | 292.6 | 282.4 | 292.4 | 291.1 |
| 20 | 558.80 | 0.00 | -48.00 | 51.590 | 1.956 | 0.013 | 292.6 | 282.4 | 292.4 | 290.8 |
| 21 | 558.80 | 0.00 | -44.00 | 51.581 | 2.320 | 0.015 | 292.6 | 282.4 | 292.4 | 290.5 |
| 22 | 558.80 | 0.00 | -40.00 | 51.582 | 2.955 | 0.014 | 292.5 | 282.4 | 292.4 | 289.9 |
| 23 | 558.80 | 0.00 | -36.00 | 51.584 | 3.536 | 0.015 | 292.5 | 282.4 | 292.4 | 289.5 |
| 24 | 558.80 | 0.00 | -32.00 | 51.578 | 4.246 | 0.020 | 292.6 | 282.4 | 292.4 | 288.9 |
| 25 | 558.80 | 0.00 | -28.00 | 51.561 | 4.812 | 0.014 | 292.6 | 282.4 | 292.4 | 288.4 |
| 26 | 558.80 | 0.00 | -24.00 | 51.565 | 5.518 | 0.014 | 292.9 | 282.4 | 292.4 | 287.9 |
| 27 | 558.80 | 0.00 | -20.00 | 51.568 | 6.526 | 0.013 | 293.4 | 282.4 | 292.4 | 287.1 |
| 28 | 558.80 | 0.00 | -16.00 | 51.567 | 7.030 | 0.013 | 293.5 | 282.4 | 292.5 | 286.8 |
| 29 | 558.80 | 0.00 | -12.00 | 51.570 | 7.393 | 0.014 | 293.3 | 282.3 | 292.5 | 286.5 |
| 30 | 558.80 | 0.00 | -8.00 | 51.569 | 7.977 | 0.014 | 293.4 | 282.3 | 292.5 | 286.0 |
| 31 | 558.80 | 0.00 | -4.00 | 51.570 | 8.040 | 0.014 | 293.6 | 282.3 | 292.5 | 286.0 |
| 32 | 558.80 | 0.00 | 0.00 | 51.561 | 7.890 | 0.016 | 293.6 | 282.3 | 292.5 | 286.1 |
| 33 | 558.80 | 0.00 | 4.00 | 51.575 | 7.644 | 0.018 | 293.3 | 282.4 | 292.5 | 286.3 |
| 34 | 558.80 | 0.00 | 8.00 | 51.567 | 7.308 | 0.014 | 293.0 | 282.3 | 292.3 | 286.4 |
| 35 | 558.80 | 0.00 | 12.00 | 51.565 | 6.760 | 0.014 | 292.8 | 282.3 | 292.3 | 286.8 |
| 36 | 558.80 | 0.00 | 16.00 | 51.557 | 6.105 | 0.013 | 292.7 | 282.3 | 292.2 | 287.2 |
| 37 | 558.80 | 0.00 | 20.00 | 51.583 | 5.393 | 0.014 | 292.7 | 282.3 | 292.1 | 287.7 |

File : TAB305T

6-FEB-89
6-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG I(B)

C1 : X/D = 11
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.510 kPa

Mean gauged plenum pressure : 51.099 kPa
RMS gauged plenum pressure : 0.313 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 558.80 | -160.00 | 0.00 | 50.919 | 0.014 | 0.012 | 281.8 | 280.9 | 281.7 | 281.7 |
| 3 | 558.80 | -152.00 | 0.00 | 51.125 | 0.013 | 0.012 | 281.8 | 280.9 | 281.8 | 281.8 |
| 4 | 558.80 | -144.00 | 0.00 | 51.053 | 0.013 | 0.012 | 281.8 | 280.9 | 281.8 | 281.8 |
| 5 | 558.80 | -136.00 | 0.00 | 51.044 | 0.013 | 0.012 | 281.9 | 280.9 | 281.8 | 281.8 |
| 6 | 558.80 | -128.00 | 0.00 | 51.352 | 0.014 | 0.012 | 281.9 | 281.0 | 281.8 | 281.8 |
| 7 | 558.80 | -120.00 | 0.00 | 51.569 | 0.079 | 0.012 | 281.9 | 281.0 | 281.9 | 281.8 |
| 8 | 558.80 | -112.00 | 0.00 | 51.239 | 0.277 | 0.012 | 281.9 | 281.0 | 281.9 | 281.7 |
| 9 | 558.80 | -104.00 | 0.00 | 51.186 | 0.488 | 0.012 | 281.9 | 281.0 | 281.9 | 281.5 |
| 10 | 558.80 | -96.00 | 0.00 | 51.229 | 0.853 | 0.012 | 282.0 | 281.0 | 281.9 | 281.2 |
| 11 | 558.80 | -88.00 | 0.00 | 51.122 | 1.722 | 0.012 | 282.0 | 281.0 | 281.9 | 280.5 |
| 12 | 558.80 | -80.00 | 0.00 | 50.992 | 2.668 | 0.012 | 282.0 | 281.0 | 281.9 | 279.8 |
| 13 | 558.80 | -72.00 | 0.00 | 51.040 | 3.684 | 0.012 | 282.1 | 281.0 | 282.0 | 279.1 |
| 14 | 558.80 | -64.00 | 0.00 | 50.949 | 5.073 | 0.012 | 282.1 | 281.0 | 282.0 | 278.0 |
| 15 | 558.80 | -56.00 | 0.00 | 50.918 | 6.671 | 0.012 | 282.1 | 281.0 | 282.1 | 276.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 558.80 | -48.00 | 0.00 | 51.187 | 8.657 | 0.012 | 282.1 | 281.0 | 282.0 | 275.3 |
| 17 | 558.80 | -40.00 | 0.00 | 51.340 | 9.641 | 0.012 | 282.2 | 281.0 | 282.1 | 274.7 |
| 18 | 558.80 | -32.00 | 0.00 | 51.390 | 10.361 | 0.013 | 282.2 | 281.0 | 279.4 | 271.5 |
| 19 | 558.80 | -24.00 | 0.00 | 51.373 | 9.961 | 0.013 | 282.2 | 281.1 | 281.5 | 273.8 |
| 20 | 558.80 | -16.00 | 0.00 | 51.296 | 9.090 | 0.012 | 282.1 | 281.0 | 292.7 | 285.4 |
| 21 | 558.80 | -8.00 | 0.00 | 51.404 | 8.205 | 0.013 | 282.1 | 281.1 | 281.8 | 275.4 |
| 22 | 558.80 | 0.00 | 0.00 | 51.308 | 7.846 | 0.013 | 282.1 | 281.0 | 281.6 | 275.5 |
| 23 | 558.80 | 8.00 | 0.00 | 51.141 | 8.122 | 0.012 | 282.1 | 281.0 | 282.0 | 275.7 |
| 24 | 558.80 | 16.00 | 0.00 | 50.830 | 8.717 | 0.012 | 282.1 | 281.0 | 282.1 | 275.3 |
| 25 | 558.80 | 24.00 | 0.00 | 50.386 | 9.881 | 0.013 | 282.1 | 280.9 | 282.0 | 274.4 |
| 26 | 558.80 | 32.00 | 0.00 | 49.946 | 10.142 | 0.013 | 282.1 | 281.0 | 282.0 | 274.2 |
| 27 | 558.80 | 40.00 | 0.00 | 51.006 | 9.814 | 0.013 | 282.1 | 281.0 | 281.9 | 274.3 |
| 28 | 558.80 | 48.00 | 0.00 | 51.019 | 7.993 | 0.013 | 282.1 | 281.0 | 282.2 | 276.0 |
| 29 | 558.80 | 56.00 | 0.00 | 51.155 | 6.173 | 0.013 | 282.1 | 281.0 | 282.0 | 277.1 |
| 30 | 558.80 | 64.00 | 0.00 | 51.357 | 4.321 | 0.013 | 282.1 | 281.0 | 282.2 | 278.8 |
| 31 | 558.80 | 72.00 | 0.00 | 51.334 | 3.159 | 0.014 | 282.1 | 281.0 | 282.0 | 279.5 |
| 32 | 558.80 | 80.00 | 0.00 | 51.370 | 2.223 | 0.015 | 282.2 | 281.1 | 282.0 | 280.2 |
| 33 | 558.80 | 88.00 | 0.00 | 50.972 | 1.482 | 0.013 | 282.3 | 281.1 | 282.1 | 280.9 |
| 34 | 558.80 | 96.00 | 0.00 | 51.219 | 0.643 | 0.016 | 282.3 | 281.1 | 282.1 | 281.6 |
| 35 | 558.80 | 104.00 | 0.00 | 51.173 | 0.506 | 0.015 | 282.4 | 281.1 | 282.1 | 281.7 |
| 36 | 558.80 | 112.00 | 0.00 | 50.945 | 0.252 | 0.016 | 282.3 | 281.1 | 282.1 | 281.9 |
| 37 | 558.80 | 120.00 | 0.00 | 50.735 | 0.095 | 0.016 | 282.3 | 281.0 | 282.1 | 282.0 |
| 38 | 558.80 | 128.00 | 0.00 | 50.934 | 0.018 | 0.014 | 282.3 | 281.0 | 282.1 | 282.1 |
| 39 | 558.80 | 136.00 | 0.00 | 51.045 | 0.013 | 0.015 | 282.3 | 281.0 | 282.1 | 282.1 |
| 40 | 558.80 | 144.00 | 0.00 | 51.082 | 0.013 | 0.023 | 282.2 | 281.0 | 282.1 | 282.1 |
| 41 | 558.80 | 152.00 | 0.00 | 51.279 | 0.013 | 0.021 | 282.2 | 281.0 | 282.1 | 282.1 |
| 42 | 558.80 | 160.00 | 0.00 | 51.327 | 0.013 | 0.019 | 282.1 | 281.0 | 282.0 | 282.0 |

File : TAB149T

15-NOV-88
15-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config I(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.239 kPa

Mean gauged plenum pressure : 51.476 kPa
RMS gauged plenum pressure : 0.071 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.487 | 0.263 | 0.013 | 295.3 | 286.1 | 292.7 | 292.5 |
| 3 | 457.20 | -105.00 | 0.00 | 51.470 | 0.491 | 0.013 | 294.9 | 286.0 | 292.6 | 292.2 |
| 4 | 457.20 | -100.00 | 0.00 | 51.441 | 0.801 | 0.012 | 294.7 | 286.0 | 292.3 | 291.6 |
| 5 | 457.20 | -95.00 | 0.00 | 51.478 | 1.164 | 0.012 | 294.7 | 286.0 | 292.2 | 291.2 |
| 6 | 457.20 | -90.00 | 0.00 | 51.483 | 1.750 | 0.012 | 294.7 | 286.0 | 291.7 | 290.2 |
| 7 | 457.20 | -85.00 | 0.00 | 51.497 | 2.297 | 0.012 | 294.7 | 286.0 | 291.5 | 289.6 |
| 8 | 457.20 | -80.00 | 0.00 | 51.506 | 3.377 | 0.012 | 294.6 | 286.0 | 291.1 | 288.3 |
| 9 | 457.20 | -75.00 | 0.00 | 51.508 | 4.139 | 0.012 | 294.6 | 286.0 | 290.7 | 287.3 |
| 10 | 457.20 | -70.00 | 0.00 | 51.532 | 5.416 | 0.012 | 294.5 | 286.0 | 290.3 | 285.9 |
| 11 | 457.20 | -65.00 | 0.00 | 51.549 | 6.827 | 0.012 | 294.3 | 286.0 | 289.8 | 284.3 |
| 12 | 457.20 | -60.00 | 0.00 | 51.573 | 8.436 | 0.012 | 294.3 | 286.0 | 289.3 | 282.6 |
| 13 | 457.20 | -55.00 | 0.00 | 51.603 | 9.823 | 0.012 | 294.2 | 286.0 | 289.0 | 281.2 |
| 14 | 457.20 | -50.00 | 0.00 | 51.618 | 11.720 | 0.014 | 294.2 | 286.0 | 288.7 | 279.5 |
| 15 | 457.20 | -45.00 | 0.00 | 51.590 | 13.383 | 0.013 | 294.1 | 286.0 | 288.6 | 278.2 |
| 16 | 457.20 | -40.00 | 0.00 | 51.589 | 14.912 | 0.012 | 294.1 | 286.0 | 288.6 | 277.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 51.570 | 15.964 | 0.012 | 294.2 | 286.0 | 288.6 | 276.4 |
| 18 | 457.20 | -30.00 | 0.00 | 51.534 | 15.987 | 0.012 | 294.2 | 286.0 | 288.7 | 276.5 |
| 19 | 457.20 | -25.00 | 0.00 | 51.492 | 15.189 | 0.012 | 294.3 | 285.9 | 288.5 | 276.9 |
| 20 | 457.20 | -20.00 | 0.00 | 51.505 | 13.738 | 0.013 | 294.3 | 285.9 | 288.0 | 277.4 |
| 21 | 457.20 | -15.00 | 0.00 | 51.528 | 12.094 | 0.016 | 294.2 | 285.9 | 287.9 | 278.5 |
| 22 | 457.20 | -10.00 | 0.00 | 51.493 | 10.862 | 0.016 | 294.2 | 285.9 | 287.7 | 279.2 |
| 23 | 457.20 | -5.00 | 0.00 | 51.481 | 10.228 | 0.019 | 294.2 | 285.9 | 287.7 | 279.7 |
| 24 | 457.20 | 0.00 | 0.00 | 51.479 | 10.285 | 0.018 | 294.6 | 285.9 | 287.7 | 279.6 |
| 25 | 457.20 | 5.00 | 0.00 | 51.434 | 11.060 | 0.015 | 295.1 | 285.9 | 287.7 | 279.0 |
| 26 | 457.20 | 10.00 | 0.00 | 51.477 | 12.231 | 0.015 | 295.2 | 285.9 | 287.8 | 278.3 |
| 27 | 457.20 | 15.00 | 0.00 | 51.523 | 13.810 | 0.014 | 295.1 | 285.9 | 288.0 | 277.4 |
| 28 | 457.20 | 20.00 | 0.00 | 51.494 | 15.275 | 0.017 | 295.3 | 285.9 | 288.2 | 276.5 |
| 29 | 457.20 | 25.00 | 0.00 | 51.505 | 16.151 | 0.014 | 295.3 | 285.9 | 288.4 | 276.1 |
| 30 | 457.20 | 30.00 | 0.00 | 51.496 | 15.994 | 0.015 | 295.3 | 285.9 | 288.4 | 276.2 |
| 31 | 457.20 | 35.00 | 0.00 | 51.467 | 14.510 | 0.014 | 295.3 | 285.9 | 288.6 | 277.4 |
| 32 | 457.20 | 40.00 | 0.00 | 51.462 | 12.133 | 0.016 | 294.9 | 285.9 | 288.6 | 279.1 |
| 33 | 457.20 | 45.00 | 0.00 | 51.447 | 10.132 | 0.015 | 294.5 | 285.8 | 288.5 | 280.5 |
| 34 | 457.20 | 50.00 | 0.00 | 51.414 | 7.901 | 0.014 | 294.3 | 285.8 | 288.9 | 282.6 |
| 35 | 457.20 | 55.00 | 0.00 | 51.352 | 6.368 | 0.015 | 294.3 | 285.9 | 289.2 | 284.0 |
| 36 | 457.20 | 60.00 | 0.00 | 51.356 | 4.817 | 0.019 | 294.3 | 285.9 | 289.7 | 285.8 |
| 37 | 457.20 | 65.00 | 0.00 | 51.350 | 3.638 | 0.015 | 294.3 | 285.9 | 290.2 | 287.2 |
| 38 | 457.20 | 70.00 | 0.00 | 51.359 | 3.134 | 0.014 | 294.4 | 285.9 | 291.1 | 288.5 |
| 39 | 457.20 | 75.00 | 0.00 | 51.367 | 1.921 | 0.015 | 294.3 | 286.0 | 291.2 | 289.6 |
| 40 | 457.20 | 80.00 | 0.00 | 51.382 | 1.672 | 0.013 | 294.5 | 286.0 | 292.0 | 290.6 |
| 41 | 457.20 | 85.00 | 0.00 | 51.339 | 0.991 | 0.016 | 294.5 | 286.0 | 292.1 | 291.3 |
| 42 | 457.20 | 90.00 | 0.00 | 51.413 | 0.697 | 0.014 | 294.6 | 286.0 | 292.4 | 291.8 |
| 43 | 457.20 | 95.00 | 0.00 | 51.401 | 0.504 | 0.014 | 294.7 | 286.1 | 292.8 | 292.4 |
| 44 | 457.20 | 100.00 | 0.00 | 51.403 | 0.120 | 0.022 | 294.5 | 286.1 | 293.0 | 292.9 |
| 45 | 457.20 | 105.00 | 0.00 | 51.427 | 0.086 | 0.019 | 294.6 | 286.1 | 293.2 | 293.1 |
| 46 | 457.20 | 110.00 | 0.00 | 51.453 | 0.053 | 0.016 | 294.7 | 286.1 | 293.4 | 293.4 |

File : TAB148T 15-NOV-88
15-NOV-88

Reduced experimental data file

CONFIGURATION I

Unexcited, unheated jet, Mj = 0.8
DRPTAB, CONFIG I(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.341 kPa

Mean gauged plenum pressure : 51.185 kPa
RMS gauged plenum pressure : 0.111 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.208 | 0.344 | 0.012 | 293.4 | 286.2 | 290.9 | 290.6 |
| 3 | 457.20 | 0.00 | -58.00 | 51.210 | 0.407 | 0.012 | 293.5 | 286.2 | 290.8 | 290.5 |
| 4 | 457.20 | 0.00 | -56.00 | 51.239 | 0.585 | 0.012 | 293.6 | 286.3 | 290.3 | 289.8 |
| 5 | 457.20 | 0.00 | -54.00 | 51.277 | 0.730 | 0.012 | 293.6 | 286.3 | 290.3 | 289.7 |
| 6 | 457.20 | 0.00 | -52.00 | 51.279 | 0.806 | 0.012 | 293.7 | 286.3 | 290.4 | 289.7 |
| 7 | 457.20 | 0.00 | -50.00 | 51.317 | 1.129 | 0.012 | 293.8 | 286.3 | 290.5 | 289.6 |
| 8 | 457.20 | 0.00 | -48.00 | 51.370 | 1.201 | 0.012 | 294.2 | 286.3 | 290.7 | 289.7 |
| 9 | 457.20 | 0.00 | -46.00 | 51.365 | 1.369 | 0.013 | 294.2 | 286.3 | 290.1 | 289.0 |
| 10 | 457.20 | 0.00 | -44.00 | 51.335 | 1.718 | 0.014 | 294.4 | 286.3 | 290.1 | 288.7 |
| 11 | 457.20 | 0.00 | -42.00 | 51.309 | 2.008 | 0.013 | 294.4 | 286.3 | 289.9 | 288.2 |
| 12 | 457.20 | 0.00 | -40.00 | 51.322 | 2.371 | 0.016 | 294.6 | 286.3 | 290.3 | 288.3 |
| 13 | 457.20 | 0.00 | -38.00 | 51.304 | 2.615 | 0.018 | 294.7 | 286.3 | 289.8 | 287.6 |
| 14 | 457.20 | 0.00 | -36.00 | 51.294 | 3.021 | 0.015 | 294.7 | 286.3 | 289.7 | 287.2 |
| 15 | 457.20 | 0.00 | -34.00 | 51.259 | 3.370 | 0.016 | 294.8 | 286.3 | 289.6 | 286.8 |
| 16 | 457.20 | 0.00 | -32.00 | 51.262 | 3.879 | 0.021 | 294.8 | 286.3 | 289.5 | 286.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -30.00 | 51.227 | 4.360 | 0.019 | 294.7 | 286.4 | 289.1 | 285.5 |
| 18 | 457.20 | 0.00 | -28.00 | 51.163 | 4.791 | 0.017 | 294.7 | 286.3 | 289.1 | 285.2 |
| 19 | 457.20 | 0.00 | -26.00 | 51.180 | 5.150 | 0.016 | 294.8 | 286.3 | 288.9 | 284.7 |
| 20 | 457.20 | 0.00 | -24.00 | 51.207 | 5.898 | 0.022 | 294.7 | 286.2 | 288.6 | 283.8 |
| 21 | 457.20 | 0.00 | -22.00 | 51.183 | 6.361 | 0.019 | 294.7 | 286.2 | 288.4 | 283.3 |
| 22 | 457.20 | 0.00 | -20.00 | 51.205 | 6.917 | 0.012 | 295.2 | 286.2 | 288.6 | 283.0 |
| 23 | 457.20 | 0.00 | -18.00 | 51.201 | 7.257 | 0.012 | 295.8 | 286.2 | 288.4 | 282.6 |
| 24 | 457.20 | 0.00 | -16.00 | 51.185 | 7.869 | 0.013 | 295.9 | 286.2 | 288.1 | 281.8 |
| 25 | 457.20 | 0.00 | -14.00 | 51.159 | 8.352 | 0.012 | 295.9 | 286.2 | 288.2 | 281.6 |
| 26 | 457.20 | 0.00 | -12.00 | 51.126 | 8.794 | 0.012 | 295.9 | 286.2 | 288.4 | 281.4 |
| 27 | 457.20 | 0.00 | -10.00 | 51.095 | 9.251 | 0.012 | 295.9 | 286.2 | 288.1 | 280.8 |
| 28 | 457.20 | 0.00 | -8.00 | 51.101 | 9.611 | 0.012 | 295.9 | 286.2 | 288.0 | 280.4 |
| 29 | 457.20 | 0.00 | -6.00 | 51.148 | 9.732 | 0.013 | 295.6 | 286.1 | 288.1 | 280.4 |
| 30 | 457.20 | 0.00 | -4.00 | 51.143 | 9.818 | 0.015 | 295.1 | 286.2 | 287.9 | 280.2 |
| 31 | 457.20 | 0.00 | -2.00 | 51.103 | 10.163 | 0.014 | 294.9 | 286.2 | 287.9 | 279.9 |
| 32 | 457.20 | 0.00 | 0.00 | 51.079 | 10.117 | 0.013 | 294.8 | 286.3 | 287.9 | 279.9 |
| 33 | 457.20 | 0.00 | 2.00 | 51.063 | 9.953 | 0.014 | 294.7 | 286.3 | 287.8 | 280.0 |
| 34 | 457.20 | 0.00 | 4.00 | 51.026 | 9.863 | 0.016 | 294.7 | 286.3 | 287.9 | 280.1 |
| 35 | 457.20 | 0.00 | 6.00 | 51.014 | 9.506 | 0.013 | 295.0 | 286.3 | 288.1 | 280.6 |
| 36 | 457.20 | 0.00 | 8.00 | 51.016 | 9.297 | 0.015 | 295.2 | 286.3 | 288.4 | 281.0 |
| 37 | 457.20 | 0.00 | 10.00 | 50.954 | 8.917 | 0.015 | 295.2 | 286.3 | 288.1 | 281.0 |

File : TAB167T

8-DEC-88
21-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
Config. I(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.442 kPa

Mean gauged plenum pressure : 51.233 kPa
RMS gauged plenum pressure : 0.242 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.407 | 0.093 | 0.012 | 282.2 | 283.7 | 281.3 | 281.2 |
| 3 | 457.20 | -105.00 | 0.00 | 51.474 | 0.186 | 0.012 | 282.2 | 283.7 | 281.6 | 281.4 |
| 4 | 457.20 | -100.00 | 0.00 | 51.465 | 0.431 | 0.012 | 282.3 | 283.7 | 281.3 | 280.9 |
| 5 | 457.20 | -95.00 | 0.00 | 51.451 | 0.842 | 0.012 | 282.3 | 283.7 | 281.3 | 280.6 |
| 6 | 457.20 | -90.00 | 0.00 | 51.362 | 1.115 | 0.012 | 282.3 | 283.7 | 281.1 | 280.2 |
| 7 | 457.20 | -85.00 | 0.00 | 51.279 | 1.714 | 0.014 | 282.2 | 283.7 | 281.3 | 279.9 |
| 8 | 457.20 | -80.00 | 0.00 | 51.236 | 2.286 | 0.013 | 282.3 | 283.7 | 281.2 | 279.4 |
| 9 | 457.20 | -75.00 | 0.00 | 51.219 | 3.191 | 0.012 | 282.3 | 283.7 | 281.1 | 278.5 |
| 10 | 457.20 | -70.00 | 0.00 | 51.179 | 3.788 | 0.012 | 282.4 | 283.7 | 281.3 | 278.3 |
| 11 | 457.20 | -65.00 | 0.00 | 51.202 | 4.942 | 0.013 | 282.5 | 283.8 | 281.2 | 277.3 |
| 12 | 457.20 | -60.00 | 0.00 | 51.255 | 6.520 | 0.013 | 282.3 | 283.7 | 281.0 | 275.9 |
| 13 | 457.20 | -55.00 | 0.00 | 51.314 | 7.878 | 0.013 | 282.3 | 283.7 | 280.8 | 274.7 |
| 14 | 457.20 | -50.00 | 0.00 | 51.461 | 9.477 | 0.014 | 282.3 | 283.7 | 281.1 | 273.8 |
| 15 | 457.20 | -45.00 | 0.00 | 51.515 | 10.894 | 0.013 | 282.4 | 283.7 | 281.3 | 273.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.429 | 12.951 | 0.013 | 282.5 | 283.7 | 281.5 | 271.7 |
| 17 | 457.20 | -35.00 | 0.00 | 51.385 | 14.433 | 0.013 | 282.5 | 283.7 | 281.6 | 270.8 |
| 18 | 457.20 | -30.00 | 0.00 | 51.314 | 15.025 | 0.014 | 282.6 | 283.7 | 281.4 | 270.2 |
| 19 | 457.20 | -25.00 | 0.00 | 51.215 | 14.550 | 0.014 | 282.7 | 283.8 | 281.4 | 270.5 |
| 20 | 457.20 | -20.00 | 0.00 | 51.122 | 13.530 | 0.015 | 282.7 | 283.8 | 281.3 | 271.1 |
| 21 | 457.20 | -15.00 | 0.00 | 50.866 | 12.119 | 0.017 | 282.8 | 283.8 | 280.9 | 271.7 |
| 22 | 457.20 | -10.00 | 0.00 | 50.886 | 11.004 | 0.013 | 282.8 | 283.8 | 280.6 | 272.2 |
| 23 | 457.20 | -5.00 | 0.00 | 50.840 | 10.318 | 0.017 | 282.9 | 283.8 | 280.6 | 272.7 |
| 24 | 457.20 | 0.00 | 0.00 | 50.745 | 10.017 | 0.016 | 283.0 | 283.8 | 280.6 | 272.9 |
| 25 | 457.20 | 5.00 | 0.00 | 50.661 | 10.542 | 0.017 | 283.1 | 283.8 | 280.8 | 272.7 |
| 26 | 457.20 | 10.00 | 0.00 | 50.632 | 11.257 | 0.017 | 283.1 | 283.8 | 280.7 | 272.1 |
| 27 | 457.20 | 15.00 | 0.00 | 51.167 | 12.861 | 0.015 | 282.9 | 283.8 | 281.1 | 271.4 |
| 28 | 457.20 | 20.00 | 0.00 | 51.171 | 14.460 | 0.018 | 282.9 | 283.8 | 281.4 | 270.6 |
| 29 | 457.20 | 25.00 | 0.00 | 51.222 | 15.123 | 0.015 | 282.9 | 283.8 | 281.7 | 270.4 |
| 30 | 457.20 | 30.00 | 0.00 | 51.232 | 14.914 | 0.013 | 283.0 | 283.8 | 281.9 | 270.7 |
| 31 | 457.20 | 35.00 | 0.00 | 51.392 | 13.457 | 0.014 | 283.1 | 283.8 | 282.1 | 271.9 |
| 32 | 457.20 | 40.00 | 0.00 | 51.489 | 11.850 | 0.018 | 283.0 | 283.9 | 281.6 | 272.6 |
| 33 | 457.20 | 45.00 | 0.00 | 51.564 | 9.687 | 0.015 | 283.1 | 283.8 | 281.3 | 273.8 |
| 34 | 457.20 | 50.00 | 0.00 | 51.462 | 7.545 | 0.015 | 283.1 | 283.8 | 281.2 | 275.3 |
| 35 | 457.20 | 55.00 | 0.00 | 51.351 | 5.796 | 0.015 | 283.1 | 283.8 | 280.7 | 276.1 |
| 36 | 457.20 | 60.00 | 0.00 | 51.178 | 3.959 | 0.019 | 283.0 | 283.8 | 281.1 | 277.9 |
| 37 | 457.20 | 65.00 | 0.00 | 51.099 | 3.456 | 0.016 | 282.9 | 283.7 | 280.9 | 278.1 |
| 38 | 457.20 | 70.00 | 0.00 | 51.063 | 2.197 | 0.013 | 283.0 | 283.8 | 281.5 | 279.7 |
| 39 | 457.20 | 75.00 | 0.00 | 51.262 | 1.360 | 0.020 | 282.9 | 283.8 | 281.6 | 280.5 |
| 40 | 457.20 | 80.00 | 0.00 | 51.493 | 1.116 | 0.020 | 283.1 | 283.8 | 281.7 | 280.8 |
| 41 | 457.20 | 85.00 | 0.00 | 51.606 | 0.906 | 0.017 | 283.2 | 283.8 | 281.8 | 281.1 |
| 42 | 457.20 | 90.00 | 0.00 | 51.573 | 0.616 | 0.019 | 283.3 | 283.8 | 281.9 | 281.4 |
| 43 | 457.20 | 95.00 | 0.00 | 51.439 | 0.299 | 0.020 | 283.2 | 283.8 | 282.0 | 281.8 |
| 44 | 457.20 | 100.00 | 0.00 | 51.258 | 0.198 | 0.020 | 283.3 | 283.8 | 282.2 | 282.0 |
| 45 | 457.20 | 105.00 | 0.00 | 51.031 | 0.090 | 0.023 | 283.3 | 283.8 | 282.1 | 282.0 |
| 46 | 457.20 | 110.00 | 0.00 | 50.920 | 0.012 | 0.025 | 283.2 | 283.8 | 282.6 | 282.6 |

File : TAB180T

10-DEC-88
23-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
Config I(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.138 kPa

Mean gauged plenum pressure : 51.259 kPa
RMS gauged plenum pressure : 0.143 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.306 | 0.230 | 0.012 | 282.9 | 283.8 | 282.3 | 282.1 |
| 3 | 457.20 | -105.00 | 0.00 | 51.470 | 0.369 | 0.012 | 282.9 | 283.8 | 282.4 | 282.1 |
| 4 | 457.20 | -100.00 | 0.00 | 51.470 | 0.662 | 0.012 | 282.8 | 283.9 | 282.3 | 281.8 |
| 5 | 457.20 | -95.00 | 0.00 | 51.377 | 0.964 | 0.012 | 282.9 | 283.9 | 282.2 | 281.4 |
| 6 | 457.20 | -90.00 | 0.00 | 51.405 | 1.372 | 0.012 | 282.9 | 283.9 | 282.2 | 281.1 |
| 7 | 457.20 | -85.00 | 0.00 | 51.271 | 1.718 | 0.012 | 282.9 | 283.8 | 282.2 | 280.8 |
| 8 | 457.20 | -80.00 | 0.00 | 51.210 | 2.396 | 0.012 | 283.0 | 283.9 | 282.2 | 280.3 |
| 9 | 457.20 | -75.00 | 0.00 | 51.169 | 3.580 | 0.012 | 283.0 | 283.9 | 282.0 | 279.1 |
| 10 | 457.20 | -70.00 | 0.00 | 51.078 | 4.190 | 0.013 | 283.1 | 283.9 | 282.0 | 278.6 |
| 11 | 457.20 | -65.00 | 0.00 | 51.022 | 5.217 | 0.012 | 283.1 | 283.8 | 281.9 | 277.8 |
| 12 | 457.20 | -60.00 | 0.00 | 51.001 | 6.637 | 0.012 | 283.1 | 283.9 | 281.7 | 276.5 |
| 13 | 457.20 | -55.00 | 0.00 | 51.341 | 8.003 | 0.012 | 283.1 | 283.8 | 282.0 | 275.7 |
| 14 | 457.20 | -50.00 | 0.00 | 51.350 | 9.678 | 0.013 | 283.2 | 283.8 | 282.0 | 274.5 |
| 15 | 457.20 | -45.00 | 0.00 | 51.385 | 11.220 | 0.013 | 283.2 | 283.8 | 282.1 | 273.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.372 | 12.790 | 0.012 | 283.1 | 283.8 | 282.1 | 272.4 |
| 17 | 457.20 | -35.00 | 0.00 | 51.394 | 13.911 | 0.012 | 283.2 | 283.8 | 282.3 | 271.8 |
| 18 | 457.20 | -30.00 | 0.00 | 51.360 | 14.301 | 0.012 | 283.2 | 283.8 | 282.1 | 271.3 |
| 19 | 457.20 | -25.00 | 0.00 | 51.384 | 13.650 | 0.012 | 283.2 | 283.8 | 281.8 | 271.5 |
| 20 | 457.20 | -20.00 | 0.00 | 51.424 | 12.782 | 0.013 | 283.2 | 283.8 | 281.6 | 271.9 |
| 21 | 457.20 | -15.00 | 0.00 | 51.405 | 11.799 | 0.012 | 283.2 | 283.8 | 281.4 | 272.4 |
| 22 | 457.20 | -10.00 | 0.00 | 51.355 | 10.764 | 0.012 | 283.2 | 283.8 | 281.3 | 273.0 |
| 23 | 457.20 | -5.00 | 0.00 | 51.194 | 10.349 | 0.013 | 283.2 | 283.8 | 281.1 | 273.1 |
| 24 | 457.20 | 0.00 | 0.00 | 51.196 | 10.416 | 0.012 | 283.2 | 283.8 | 281.0 | 273.0 |
| 25 | 457.20 | 5.00 | 0.00 | 51.222 | 11.002 | 0.013 | 283.2 | 283.8 | 281.1 | 272.7 |
| 26 | 457.20 | 10.00 | 0.00 | 51.166 | 12.208 | 0.012 | 283.3 | 283.8 | 281.3 | 272.0 |
| 27 | 457.20 | 15.00 | 0.00 | 51.205 | 13.388 | 0.012 | 283.2 | 283.8 | 281.6 | 271.5 |
| 28 | 457.20 | 20.00 | 0.00 | 51.239 | 14.286 | 0.012 | 283.1 | 283.8 | 281.8 | 271.0 |
| 29 | 457.20 | 25.00 | 0.00 | 51.252 | 15.181 | 0.012 | 283.1 | 283.8 | 282.0 | 270.6 |
| 30 | 457.20 | 30.00 | 0.00 | 51.248 | 14.619 | 0.013 | 283.1 | 283.8 | 282.3 | 271.3 |
| 31 | 457.20 | 35.00 | 0.00 | 51.213 | 13.452 | 0.013 | 283.1 | 283.8 | 282.0 | 271.8 |
| 32 | 457.20 | 40.00 | 0.00 | 51.143 | 12.003 | 0.012 | 283.1 | 283.8 | 282.0 | 272.8 |
| 33 | 457.20 | 45.00 | 0.00 | 51.073 | 10.095 | 0.013 | 283.2 | 283.8 | 282.1 | 274.3 |
| 34 | 457.20 | 50.00 | 0.00 | 51.009 | 8.329 | 0.013 | 283.2 | 283.8 | 281.9 | 275.4 |
| 35 | 457.20 | 55.00 | 0.00 | 50.981 | 6.759 | 0.013 | 283.2 | 283.8 | 281.9 | 276.6 |
| 36 | 457.20 | 60.00 | 0.00 | 51.338 | 5.538 | 0.013 | 283.2 | 283.8 | 282.1 | 277.7 |
| 37 | 457.20 | 65.00 | 0.00 | 51.327 | 4.408 | 0.013 | 283.2 | 283.8 | 282.1 | 278.6 |
| 38 | 457.20 | 70.00 | 0.00 | 51.321 | 3.329 | 0.016 | 283.2 | 283.8 | 282.3 | 279.6 |
| 39 | 457.20 | 75.00 | 0.00 | 51.379 | 2.335 | 0.013 | 283.2 | 283.8 | 282.4 | 280.5 |
| 40 | 457.20 | 80.00 | 0.00 | 51.410 | 1.724 | 0.014 | 283.3 | 283.8 | 282.5 | 281.1 |
| 41 | 457.20 | 85.00 | 0.00 | 51.444 | 1.193 | 0.014 | 283.3 | 283.8 | 282.5 | 281.5 |
| 42 | 457.20 | 90.00 | 0.00 | 51.481 | 0.873 | 0.013 | 283.3 | 283.8 | 282.6 | 281.9 |
| 43 | 457.20 | 95.00 | 0.00 | 51.130 | 0.552 | 0.014 | 283.3 | 283.8 | 282.7 | 282.2 |
| 44 | 457.20 | 100.00 | 0.00 | 51.156 | 0.341 | 0.015 | 283.3 | 283.8 | 282.7 | 282.4 |
| 45 | 457.20 | 105.00 | 0.00 | 51.118 | 0.162 | 0.016 | 283.3 | 283.8 | 282.8 | 282.7 |
| 46 | 457.20 | 110.00 | 0.00 | 51.093 | 0.065 | 0.014 | 283.3 | 283.8 | 282.8 | 282.7 |

File : TAB324T 17-FEB-89
17-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG I(B)

C1 : X/D = 7
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 99.526 kPa

Mean gauged plenum pressure : 51.769 kPa
RMS gauged plenum pressure : 0.099 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | -110.00 | 0.00 | 51.655 | 0.083 | 0.017 | 279.8 | 280.4 | 280.1 | 280.0 |
| 3 | 355.60 | -105.00 | 0.00 | 51.812 | 0.100 | 0.016 | 279.8 | 280.5 | 280.1 | 280.0 |
| 4 | 355.60 | -100.00 | 0.00 | 51.910 | 0.219 | 0.020 | 279.7 | 280.6 | 280.1 | 279.9 |
| 5 | 355.60 | -95.00 | 0.00 | 51.786 | 0.374 | 0.013 | 279.6 | 280.6 | 280.1 | 279.8 |
| 6 | 355.60 | -90.00 | 0.00 | 51.834 | 0.738 | 0.012 | 279.6 | 280.6 | 280.1 | 279.5 |
| 7 | 355.60 | -85.00 | 0.00 | 51.836 | 1.194 | 0.012 | 279.6 | 280.7 | 280.1 | 279.1 |
| 8 | 355.60 | -80.00 | 0.00 | 51.799 | 1.966 | 0.013 | 279.7 | 280.7 | 280.1 | 278.5 |
| 9 | 355.60 | -75.00 | 0.00 | 51.766 | 2.867 | 0.015 | 279.7 | 280.7 | 280.1 | 277.8 |
| 10 | 355.60 | -70.00 | 0.00 | 51.687 | 3.822 | 0.014 | 279.6 | 280.7 | 280.0 | 277.0 |
| 11 | 355.60 | -65.00 | 0.00 | 51.642 | 5.132 | 0.015 | 279.6 | 280.8 | 280.0 | 276.0 |
| 12 | 355.60 | -60.00 | 0.00 | 51.873 | 6.891 | 0.016 | 279.6 | 280.8 | 280.0 | 274.7 |
| 13 | 355.60 | -55.00 | 0.00 | 51.824 | 8.787 | 0.014 | 279.6 | 280.7 | 279.9 | 273.2 |
| 14 | 355.60 | -50.00 | 0.00 | 51.828 | 11.020 | 0.013 | 279.6 | 280.8 | 279.9 | 271.6 |
| 15 | 355.60 | -45.00 | 0.00 | 51.770 | 13.655 | 0.013 | 279.6 | 280.8 | 279.9 | 269.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | -40.00 | 0.00 | 51.771 | 16.920 | 0.013 | 279.6 | 280.8 | 279.9 | 267.6 |
| 17 | 355.60 | -35.00 | 0.00 | 51.807 | 20.288 | 0.015 | 279.6 | 280.8 | 279.9 | 265.4 |
| 18 | 355.60 | -30.00 | 0.00 | 51.876 | 23.200 | 0.015 | 279.6 | 280.8 | 279.9 | 263.6 |
| 19 | 355.60 | -25.00 | 0.00 | 51.921 | 24.857 | 0.017 | 279.6 | 280.8 | 279.9 | 262.6 |
| 20 | 355.60 | -20.00 | 0.00 | 51.633 | 23.468 | 0.017 | 279.5 | 280.8 | 279.9 | 263.4 |
| 21 | 355.60 | -15.00 | 0.00 | 51.693 | 20.211 | 0.013 | 279.5 | 280.8 | 279.8 | 265.4 |
| 22 | 355.60 | -10.00 | 0.00 | 51.750 | 16.278 | 0.016 | 279.5 | 280.8 | 279.8 | 267.9 |
| 23 | 355.60 | -5.00 | 0.00 | 51.810 | 13.111 | 0.018 | 279.5 | 280.7 | 279.8 | 270.1 |
| 24 | 355.60 | 0.00 | 0.00 | 51.830 | 11.237 | 0.016 | 279.5 | 280.7 | 279.8 | 271.4 |
| 25 | 355.60 | 5.00 | 0.00 | 51.822 | 10.833 | 0.016 | 279.5 | 280.7 | 279.8 | 271.6 |
| 26 | 355.60 | 10.00 | 0.00 | 51.813 | 11.771 | 0.014 | 279.4 | 280.7 | 279.7 | 270.9 |
| 27 | 355.60 | 15.00 | 0.00 | 51.833 | 14.273 | 0.017 | 279.4 | 280.7 | 279.7 | 269.2 |
| 28 | 355.60 | 20.00 | 0.00 | 51.803 | 18.364 | 0.013 | 279.4 | 280.7 | 279.7 | 266.5 |
| 29 | 355.60 | 25.00 | 0.00 | 51.784 | 22.076 | 0.014 | 279.4 | 280.7 | 279.7 | 264.1 |
| 30 | 355.60 | 30.00 | 0.00 | 51.723 | 24.652 | 0.018 | 279.4 | 280.7 | 279.7 | 262.5 |
| 31 | 355.60 | 35.00 | 0.00 | 51.679 | 23.662 | 0.016 | 279.4 | 280.6 | 279.6 | 263.0 |
| 32 | 355.60 | 40.00 | 0.00 | 51.629 | 20.399 | 0.018 | 279.3 | 280.6 | 279.5 | 265.0 |
| 33 | 355.60 | 45.00 | 0.00 | 51.620 | 15.507 | 0.019 | 279.2 | 280.6 | 279.5 | 268.1 |
| 34 | 355.60 | 50.00 | 0.00 | 51.587 | 12.255 | 0.018 | 279.3 | 280.6 | 279.5 | 270.4 |
| 35 | 355.60 | 55.00 | 0.00 | 51.566 | 9.348 | 0.018 | 279.3 | 280.6 | 279.6 | 272.5 |
| 36 | 355.60 | 60.00 | 0.00 | 51.561 | 7.209 | 0.022 | 279.3 | 280.6 | 279.5 | 274.0 |
| 37 | 355.60 | 65.00 | 0.00 | 51.594 | 4.811 | 0.021 | 279.3 | 280.6 | 279.5 | 275.7 |
| 38 | 355.60 | 70.00 | 0.00 | 51.684 | 4.516 | 0.020 | 279.2 | 280.6 | 279.5 | 276.0 |
| 39 | 355.60 | 75.00 | 0.00 | 51.754 | 3.346 | 0.019 | 279.3 | 280.6 | 279.5 | 276.9 |
| 40 | 355.60 | 80.00 | 0.00 | 51.805 | 2.157 | 0.018 | 279.3 | 280.6 | 279.5 | 277.8 |
| 41 | 355.60 | 85.00 | 0.00 | 51.844 | 1.863 | 0.023 | 279.3 | 280.6 | 279.5 | 278.0 |
| 42 | 355.60 | 90.00 | 0.00 | 51.916 | 0.912 | 0.022 | 279.3 | 280.6 | 279.5 | 278.8 |
| 43 | 355.60 | 95.00 | 0.00 | 51.815 | 0.548 | 0.022 | 279.3 | 280.6 | 279.5 | 279.1 |
| 44 | 355.60 | 100.00 | 0.00 | 51.846 | 0.224 | 0.024 | 279.4 | 280.6 | 279.5 | 279.3 |
| 45 | 355.60 | 105.00 | 0.00 | 51.863 | 0.088 | 0.024 | 279.3 | 280.6 | 279.5 | 279.4 |
| 46 | 355.60 | 110.00 | 0.00 | 51.858 | 0.044 | 0.021 | 279.3 | 280.6 | 279.5 | 279.5 |

File : TAB325T 17-FEB-89
17-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG I(B)

C1 : X/D = 9
C2 : 4
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 99.560 kPa

Mean gauged plenum pressure : 51.736 kPa
RMS gauged plenum pressure : 0.077 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | 4.00 | -60.00 | 51.792 | 0.020 | 0.014 | 278.7 | 280.1 | 278.9 | 278.9 |
| 3 | 355.60 | 4.00 | -58.00 | 51.749 | 0.019 | 0.014 | 278.8 | 280.1 | 278.9 | 278.9 |
| 4 | 355.60 | 4.00 | -56.00 | 51.734 | 0.017 | 0.013 | 278.7 | 280.2 | 278.9 | 278.9 |
| 5 | 355.60 | 4.00 | -54.00 | 51.674 | 0.051 | 0.012 | 278.6 | 280.1 | 278.9 | 278.9 |
| 6 | 355.60 | 4.00 | -52.00 | 51.664 | 0.105 | 0.012 | 278.6 | 280.1 | 278.9 | 278.8 |
| 7 | 355.60 | 4.00 | -50.00 | 51.658 | 0.264 | 0.013 | 278.7 | 280.2 | 278.9 | 278.7 |
| 8 | 355.60 | 4.00 | -48.00 | 51.679 | 0.354 | 0.012 | 278.7 | 280.2 | 278.9 | 278.6 |
| 9 | 355.60 | 4.00 | -46.00 | 51.682 | 0.491 | 0.013 | 278.7 | 280.2 | 278.9 | 278.5 |
| 10 | 355.60 | 4.00 | -44.00 | 51.695 | 0.671 | 0.014 | 278.7 | 280.2 | 278.9 | 278.4 |
| 11 | 355.60 | 4.00 | -42.00 | 51.729 | 0.880 | 0.014 | 278.7 | 280.2 | 278.9 | 278.2 |
| 12 | 355.60 | 4.00 | -40.00 | 51.751 | 1.136 | 0.013 | 278.6 | 280.2 | 279.0 | 278.1 |
| 13 | 355.60 | 4.00 | -38.00 | 51.763 | 1.417 | 0.012 | 278.7 | 280.2 | 278.9 | 277.8 |
| 14 | 355.60 | 4.00 | -36.00 | 51.814 | 1.786 | 0.012 | 278.6 | 280.2 | 278.9 | 277.5 |
| 15 | 355.60 | 4.00 | -34.00 | 51.874 | 2.209 | 0.014 | 278.6 | 280.2 | 278.9 | 277.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | 4.00 | -32.00 | 51.700 | 2.559 | 0.014 | 278.7 | 280.2 | 278.9 | 276.9 |
| 17 | 355.60 | 4.00 | -30.00 | 51.645 | 3.009 | 0.012 | 278.6 | 280.2 | 278.9 | 276.5 |
| 18 | 355.60 | 4.00 | -28.00 | 51.637 | 3.426 | 0.013 | 278.7 | 280.2 | 278.9 | 276.2 |
| 19 | 355.60 | 4.00 | -26.00 | 51.630 | 3.974 | 0.012 | 278.7 | 280.2 | 278.9 | 275.8 |
| 20 | 355.60 | 4.00 | -24.00 | 51.635 | 4.679 | 0.012 | 278.7 | 280.2 | 278.9 | 275.3 |
| 21 | 355.60 | 4.00 | -22.00 | 51.647 | 5.201 | 0.012 | 278.7 | 280.2 | 278.9 | 274.9 |
| 22 | 355.60 | 4.00 | -20.00 | 51.661 | 5.961 | 0.012 | 278.7 | 280.2 | 278.8 | 274.2 |
| 23 | 355.60 | 4.00 | -18.00 | 51.640 | 6.175 | 0.013 | 278.7 | 280.2 | 278.8 | 274.0 |
| 24 | 355.60 | 4.00 | -16.00 | 51.624 | 7.120 | 0.012 | 278.6 | 280.2 | 278.8 | 273.3 |
| 25 | 355.60 | 4.00 | -14.00 | 51.724 | 7.798 | 0.012 | 278.5 | 280.2 | 278.8 | 272.8 |
| 26 | 355.60 | 4.00 | -12.00 | 51.766 | 8.512 | 0.012 | 278.5 | 280.2 | 278.7 | 272.2 |
| 27 | 355.60 | 4.00 | -10.00 | 51.785 | 8.907 | 0.012 | 278.4 | 280.1 | 278.7 | 271.9 |
| 28 | 355.60 | 4.00 | -8.00 | 51.782 | 9.661 | 0.012 | 278.4 | 280.1 | 278.7 | 271.4 |
| 29 | 355.60 | 4.00 | -6.00 | 51.770 | 10.068 | 0.012 | 278.4 | 280.1 | 278.7 | 271.1 |
| 30 | 355.60 | 4.00 | -4.00 | 51.755 | 10.381 | 0.012 | 278.3 | 280.1 | 278.7 | 270.9 |
| 31 | 355.60 | 4.00 | -2.00 | 51.754 | 10.594 | 0.012 | 278.3 | 280.1 | 278.6 | 270.7 |
| 32 | 355.60 | 4.00 | 0.00 | 51.783 | 10.750 | 0.012 | 278.3 | 280.1 | 278.6 | 270.5 |
| 33 | 355.60 | 4.00 | 2.00 | 51.779 | 10.811 | 0.012 | 278.2 | 280.1 | 278.5 | 270.4 |
| 34 | 355.60 | 4.00 | 4.00 | 51.791 | 10.504 | 0.012 | 278.2 | 280.0 | 278.5 | 270.6 |
| 35 | 355.60 | 4.00 | 6.00 | 51.808 | 10.420 | 0.011 | 278.3 | 280.1 | 278.5 | 270.7 |
| 36 | 355.60 | 4.00 | 8.00 | 51.826 | 10.075 | 0.012 | 278.2 | 280.1 | 278.5 | 270.9 |
| 37 | 355.60 | 4.00 | 10.00 | 51.839 | 9.701 | 0.012 | 278.1 | 280.0 | 278.4 | 271.1 |

File : TAB306T 7-FEB-89
7-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG I(B)

C1 : X/D = 7
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.544 kPa

Mean gauged plenum pressure : 51.280 kPa
RMS gauged plenum pressure : 0.181 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | -110.00 | 0.00 | 51.413 | 0.060 | 0.029 | 277.1 | 279.6 | 277.4 | 277.4 |
| 3 | 355.60 | -105.00 | 0.00 | 51.359 | 0.094 | 0.031 | 277.1 | 279.7 | 277.4 | 277.3 |
| 4 | 355.60 | -100.00 | 0.00 | 51.199 | 0.242 | 0.036 | 277.0 | 279.7 | 277.3 | 277.1 |
| 5 | 355.60 | -95.00 | 0.00 | 51.401 | 0.473 | 0.033 | 277.0 | 279.8 | 277.3 | 276.9 |
| 6 | 355.60 | -90.00 | 0.00 | 51.312 | 1.147 | 0.035 | 276.9 | 279.8 | 277.3 | 276.4 |
| 7 | 355.60 | -85.00 | 0.00 | 50.975 | 1.653 | 0.037 | 276.8 | 279.7 | 277.1 | 275.8 |
| 8 | 355.60 | -80.00 | 0.00 | 51.107 | 1.586 | 0.035 | 276.8 | 279.7 | 277.1 | 275.8 |
| 9 | 355.60 | -75.00 | 0.00 | 51.076 | 2.707 | 0.033 | 276.8 | 279.7 | 277.1 | 275.0 |
| 10 | 355.60 | -70.00 | 0.00 | 51.193 | 3.629 | 0.031 | 276.8 | 279.8 | 277.1 | 274.2 |
| 11 | 355.60 | -65.00 | 0.00 | 51.440 | 5.210 | 0.026 | 276.6 | 279.8 | 277.0 | 272.9 |
| 12 | 355.60 | -60.00 | 0.00 | 51.367 | 6.823 | 0.029 | 276.6 | 279.8 | 277.0 | 271.7 |
| 13 | 355.60 | -55.00 | 0.00 | 51.386 | 8.291 | 0.029 | 276.7 | 279.9 | 277.0 | 270.7 |
| 14 | 355.60 | -50.00 | 0.00 | 51.433 | 10.595 | 0.029 | 276.7 | 280.0 | 276.9 | 268.9 |
| 15 | 355.60 | -45.00 | 0.00 | 51.221 | 13.362 | 0.024 | 276.6 | 280.0 | 276.9 | 267.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | -40.00 | 0.00 | 51.241 | 16.904 | 0.019 | 276.6 | 279.9 | 276.9 | 264.6 |
| 17 | 355.60 | -35.00 | 0.00 | 51.226 | 20.431 | 0.024 | 276.6 | 280.0 | 277.0 | 262.5 |
| 18 | 355.60 | -30.00 | 0.00 | 51.137 | 21.952 | 0.018 | 276.7 | 280.0 | 276.9 | 261.4 |
| 19 | 355.60 | -25.00 | 0.00 | 51.173 | 21.119 | 0.018 | 276.6 | 280.0 | 276.9 | 261.9 |
| 20 | 355.60 | -20.00 | 0.00 | 51.148 | 18.075 | 0.018 | 276.5 | 279.9 | 276.8 | 263.8 |
| 21 | 355.60 | -15.00 | 0.00 | 51.227 | 14.987 | 0.018 | 276.5 | 279.9 | 276.8 | 265.8 |
| 22 | 355.60 | -10.00 | 0.00 | 51.248 | 12.369 | 0.013 | 276.6 | 279.9 | 276.8 | 267.6 |
| 23 | 355.60 | -5.00 | 0.00 | 51.387 | 10.875 | 0.016 | 276.5 | 279.9 | 276.8 | 268.6 |
| 24 | 355.60 | 0.00 | 0.00 | 51.401 | 10.768 | 0.013 | 276.4 | 280.0 | 276.7 | 268.6 |
| 25 | 355.60 | 5.00 | 0.00 | 51.408 | 11.954 | 0.013 | 276.4 | 280.0 | 276.7 | 267.8 |
| 26 | 355.60 | 10.00 | 0.00 | 51.351 | 14.673 | 0.013 | 276.4 | 280.0 | 276.7 | 265.9 |
| 27 | 355.60 | 15.00 | 0.00 | 51.206 | 17.858 | 0.015 | 276.4 | 280.0 | 276.7 | 263.8 |
| 28 | 355.60 | 20.00 | 0.00 | 51.363 | 21.707 | 0.018 | 276.4 | 280.0 | 276.7 | 261.4 |
| 29 | 355.60 | 25.00 | 0.00 | 51.116 | 22.635 | 0.016 | 276.4 | 280.0 | 276.6 | 260.7 |
| 30 | 355.60 | 30.00 | 0.00 | 51.175 | 20.547 | 0.013 | 276.3 | 279.9 | 276.6 | 262.0 |
| 31 | 355.60 | 35.00 | 0.00 | 51.267 | 16.354 | 0.017 | 276.3 | 279.9 | 276.6 | 264.7 |
| 32 | 355.60 | 40.00 | 0.00 | 51.330 | 12.449 | 0.013 | 276.2 | 279.9 | 276.6 | 267.3 |
| 33 | 355.60 | 45.00 | 0.00 | 51.132 | 8.439 | 0.013 | 276.3 | 279.8 | 276.5 | 270.1 |
| 34 | 355.60 | 50.00 | 0.00 | 51.504 | 5.905 | 0.012 | 276.3 | 279.9 | 276.5 | 271.9 |
| 35 | 355.60 | 55.00 | 0.00 | 51.454 | 4.204 | 0.013 | 276.2 | 279.9 | 276.5 | 273.2 |
| 36 | 355.60 | 60.00 | 0.00 | 51.539 | 3.307 | 0.012 | 276.3 | 280.0 | 276.5 | 273.9 |
| 37 | 355.60 | 65.00 | 0.00 | 51.377 | 2.165 | 0.015 | 276.2 | 280.0 | 276.5 | 274.8 |
| 38 | 355.60 | 70.00 | 0.00 | 51.308 | 1.385 | 0.013 | 276.2 | 280.0 | 276.5 | 275.4 |
| 39 | 355.60 | 75.00 | 0.00 | 51.120 | 1.055 | 0.013 | 276.3 | 279.9 | 276.4 | 275.6 |
| 40 | 355.60 | 80.00 | 0.00 | 51.096 | 0.703 | 0.013 | 276.1 | 279.9 | 276.4 | 275.8 |
| 41 | 355.60 | 85.00 | 0.00 | 51.080 | 0.340 | 0.014 | 276.0 | 279.8 | 276.3 | 276.0 |
| 42 | 355.60 | 90.00 | 0.00 | 51.146 | 0.310 | 0.020 | 276.0 | 279.7 | 276.3 | 276.1 |
| 43 | 355.60 | 95.00 | 0.00 | 51.104 | 0.085 | 0.016 | 276.0 | 279.7 | 276.3 | 276.2 |
| 44 | 355.60 | 100.00 | 0.00 | 51.341 | 0.037 | 0.014 | 276.0 | 279.7 | 276.3 | 276.3 |
| 45 | 355.60 | 105.00 | 0.00 | 51.248 | 0.013 | 0.013 | 276.0 | 279.7 | 276.3 | 276.3 |
| 46 | 355.60 | 110.00 | 0.00 | 51.473 | 0.011 | 0.012 | 276.0 | 279.8 | 276.3 | 276.3 |

File : TAB321T

15-FEB-89
15-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG I(B)

C1 : X/D = 5
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 99.120 kPa

Mean gauged plenum pressure : 51.714 kPa
RMS gauged plenum pressure : 0.136 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | 0.00 | 51.644 | 0.014 | 0.012 | 296.3 | 284.7 | 295.4 | 295.4 |
| 3 | 254.00 | -96.00 | 0.00 | 51.663 | 0.016 | 0.012 | 296.4 | 284.4 | 295.5 | 295.5 |
| 4 | 254.00 | -92.00 | 0.00 | 51.692 | 0.144 | 0.014 | 296.2 | 284.0 | 295.6 | 295.5 |
| 5 | 254.00 | -88.00 | 0.00 | 51.682 | 0.387 | 0.014 | 296.2 | 283.7 | 295.6 | 295.3 |
| 6 | 254.00 | -84.00 | 0.00 | 51.669 | 0.727 | 0.012 | 296.4 | 283.5 | 295.6 | 295.0 |
| 7 | 254.00 | -80.00 | 0.00 | 51.614 | 1.226 | 0.013 | 296.5 | 283.5 | 295.7 | 294.7 |
| 8 | 254.00 | -76.00 | 0.00 | 51.713 | 1.985 | 0.012 | 296.9 | 283.5 | 295.8 | 294.1 |
| 9 | 254.00 | -72.00 | 0.00 | 51.830 | 2.919 | 0.012 | 297.5 | 283.4 | 296.0 | 293.6 |
| 10 | 254.00 | -68.00 | 0.00 | 51.686 | 4.327 | 0.012 | 297.9 | 283.4 | 296.2 | 292.6 |
| 11 | 254.00 | -64.00 | 0.00 | 51.869 | 5.429 | 0.013 | 297.3 | 283.4 | 296.2 | 291.7 |
| 12 | 254.00 | -60.00 | 0.00 | 51.903 | 6.994 | 0.013 | 296.9 | 283.3 | 296.2 | 290.5 |
| 13 | 254.00 | -56.00 | 0.00 | 51.860 | 9.227 | 0.012 | 297.1 | 283.3 | 296.3 | 288.9 |
| 14 | 254.00 | -52.00 | 0.00 | 51.838 | 11.528 | 0.012 | 297.4 | 283.3 | 296.3 | 287.1 |
| 15 | 254.00 | -48.00 | 0.00 | 51.779 | 15.103 | 0.012 | 297.3 | 283.2 | 296.4 | 284.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -44.00 | 0.00 | 51.685 | 18.230 | 0.012 | 297.2 | 283.2 | 296.4 | 282.4 |
| 17 | 254.00 | -40.00 | 0.00 | 51.582 | 22.894 | 0.012 | 297.1 | 283.2 | 296.4 | 279.3 |
| 18 | 254.00 | -36.00 | 0.00 | 51.568 | 27.486 | 0.012 | 297.1 | 283.2 | 296.4 | 276.3 |
| 19 | 254.00 | -32.00 | 0.00 | 51.659 | 32.542 | 0.012 | 297.2 | 283.2 | 296.5 | 273.4 |
| 20 | 254.00 | -28.00 | 0.00 | 51.680 | 37.288 | 0.013 | 297.1 | 283.2 | 296.6 | 270.7 |
| 21 | 254.00 | -24.00 | 0.00 | 51.750 | 39.642 | 0.012 | 297.2 | 283.2 | 296.6 | 269.4 |
| 22 | 254.00 | -20.00 | 0.00 | 51.672 | 37.495 | 0.012 | 297.2 | 283.2 | 296.6 | 270.6 |
| 23 | 254.00 | -16.00 | 0.00 | 51.618 | 31.175 | 0.012 | 297.3 | 283.2 | 296.6 | 274.3 |
| 24 | 254.00 | -12.00 | 0.00 | 51.575 | 22.798 | 0.012 | 297.3 | 283.2 | 296.6 | 279.5 |
| 25 | 254.00 | -8.00 | 0.00 | 51.549 | 17.487 | 0.012 | 297.3 | 283.2 | 296.7 | 283.2 |
| 26 | 254.00 | -4.00 | 0.00 | 51.847 | 13.370 | 0.012 | 297.4 | 283.1 | 296.8 | 286.2 |
| 27 | 254.00 | 0.00 | 0.00 | 51.837 | 11.978 | 0.012 | 297.4 | 283.1 | 296.8 | 287.3 |
| 28 | 254.00 | 4.00 | 0.00 | 51.886 | 11.621 | 0.012 | 297.3 | 283.1 | 296.7 | 287.4 |
| 29 | 254.00 | 8.00 | 0.00 | 51.893 | 12.995 | 0.012 | 297.2 | 283.0 | 296.7 | 286.4 |
| 30 | 254.00 | 12.00 | 0.00 | 52.060 | 15.935 | 0.012 | 297.2 | 283.1 | 296.8 | 284.4 |
| 31 | 254.00 | 16.00 | 0.00 | 51.780 | 20.736 | 0.011 | 297.4 | 283.0 | 296.8 | 281.1 |
| 32 | 254.00 | 20.00 | 0.00 | 51.827 | 29.299 | 0.011 | 297.3 | 283.1 | 296.8 | 275.6 |
| 33 | 254.00 | 24.00 | 0.00 | 51.810 | 35.906 | 0.012 | 297.5 | 283.1 | 296.9 | 271.8 |
| 34 | 254.00 | 28.00 | 0.00 | 51.800 | 40.041 | 0.012 | 297.6 | 283.1 | 296.9 | 269.4 |
| 35 | 254.00 | 32.00 | 0.00 | 51.756 | 37.143 | 0.011 | 298.2 | 283.2 | 297.0 | 271.1 |
| 36 | 254.00 | 36.00 | 0.00 | 51.635 | 29.781 | 0.012 | 298.0 | 283.2 | 297.0 | 275.5 |
| 37 | 254.00 | 40.00 | 0.00 | 51.525 | 24.012 | 0.012 | 298.3 | 283.1 | 297.0 | 279.1 |
| 38 | 254.00 | 44.00 | 0.00 | 51.651 | 17.940 | 0.012 | 298.2 | 283.0 | 296.9 | 283.1 |
| 39 | 254.00 | 48.00 | 0.00 | 51.604 | 13.961 | 0.012 | 298.1 | 282.9 | 296.8 | 285.8 |
| 40 | 254.00 | 52.00 | 0.00 | 51.507 | 11.061 | 0.012 | 297.3 | 282.9 | 296.7 | 287.9 |
| 41 | 254.00 | 56.00 | 0.00 | 51.681 | 9.193 | 0.012 | 296.8 | 282.8 | 296.6 | 289.2 |
| 42 | 254.00 | 60.00 | 0.00 | 51.640 | 6.750 | 0.011 | 297.0 | 282.8 | 296.6 | 291.1 |
| 43 | 254.00 | 64.00 | 0.00 | 51.609 | 5.807 | 0.012 | 297.3 | 282.8 | 296.5 | 291.7 |
| 44 | 254.00 | 68.00 | 0.00 | 51.599 | 4.340 | 0.012 | 297.3 | 282.9 | 296.5 | 292.9 |
| 45 | 254.00 | 72.00 | 0.00 | 51.784 | 3.316 | 0.012 | 297.5 | 282.9 | 296.5 | 293.7 |
| 46 | 254.00 | 76.00 | 0.00 | 51.786 | 2.302 | 0.012 | 297.3 | 282.9 | 296.5 | 294.6 |
| 47 | 254.00 | 80.00 | 0.00 | 51.628 | 1.788 | 0.014 | 297.3 | 282.9 | 296.5 | 295.0 |
| 48 | 254.00 | 84.00 | 0.00 | 51.546 | 0.990 | 0.013 | 297.1 | 282.9 | 296.5 | 295.7 |
| 49 | 254.00 | 88.00 | 0.00 | 51.711 | 0.546 | 0.014 | 297.1 | 282.8 | 296.5 | 296.0 |
| 50 | 254.00 | 92.00 | 0.00 | 51.771 | 0.328 | 0.014 | 297.0 | 282.8 | 296.5 | 296.2 |
| 51 | 254.00 | 96.00 | 0.00 | 51.747 | 0.120 | 0.017 | 297.0 | 282.8 | 296.5 | 296.4 |
| 52 | 254.00 | 100.00 | 0.00 | 51.851 | 0.039 | 0.017 | 297.2 | 282.8 | 296.5 | 296.5 |

File : TAB320T 15-FEB-89
15-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG I(B)

C1 : X/D = 5
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 99.221 kPa

Mean gauged plenum pressure : 51.751 kPa
RMS gauged plenum pressure : 0.181 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | 0.00 | -40.00 | 51.644 | 0.240 | 0.013 | 291.2 | 282.2 | 291.0 | 290.8 |
| 3 | 254.00 | 0.00 | -39.00 | 51.522 | 0.283 | 0.015 | 291.3 | 282.1 | 291.0 | 290.8 |
| 4 | 254.00 | 0.00 | -38.00 | 51.623 | 0.354 | 0.014 | 291.4 | 282.1 | 291.1 | 290.8 |
| 5 | 254.00 | 0.00 | -37.00 | 51.610 | 0.521 | 0.017 | 291.3 | 282.1 | 291.1 | 290.7 |
| 6 | 254.00 | 0.00 | -36.00 | 51.686 | 0.600 | 0.019 | 291.3 | 282.1 | 291.1 | 290.6 |
| 7 | 254.00 | 0.00 | -35.00 | 51.641 | 0.793 | 0.016 | 291.4 | 282.1 | 291.1 | 290.4 |
| 8 | 254.00 | 0.00 | -34.00 | 51.823 | 0.888 | 0.020 | 291.4 | 282.1 | 291.1 | 290.4 |
| 9 | 254.00 | 0.00 | -33.00 | 51.871 | 1.052 | 0.016 | 291.4 | 282.1 | 291.1 | 290.2 |
| 10 | 254.00 | 0.00 | -32.00 | 51.889 | 1.247 | 0.021 | 291.5 | 282.1 | 291.2 | 290.2 |
| 11 | 254.00 | 0.00 | -31.00 | 51.868 | 1.439 | 0.019 | 291.5 | 282.2 | 291.2 | 290.0 |
| 12 | 254.00 | 0.00 | -30.00 | 51.780 | 1.647 | 0.021 | 291.5 | 282.2 | 291.2 | 289.8 |
| 13 | 254.00 | 0.00 | -29.00 | 51.838 | 1.925 | 0.016 | 291.5 | 282.2 | 291.3 | 289.7 |
| 14 | 254.00 | 0.00 | -28.00 | 51.703 | 2.051 | 0.018 | 291.5 | 282.2 | 291.3 | 289.6 |
| 15 | 254.00 | 0.00 | -27.00 | 51.461 | 2.314 | 0.024 | 291.6 | 282.1 | 291.3 | 289.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | 0.00 | -26.00 | 51.584 | 2.681 | 0.022 | 291.6 | 282.1 | 291.3 | 289.1 |
| 17 | 254.00 | 0.00 | -25.00 | 51.799 | 2.938 | 0.019 | 291.9 | 282.1 | 291.3 | 288.9 |
| 18 | 254.00 | 0.00 | -24.00 | 51.637 | 3.267 | 0.020 | 292.1 | 282.1 | 291.4 | 288.7 |
| 19 | 254.00 | 0.00 | -23.00 | 51.508 | 3.516 | 0.016 | 292.4 | 282.0 | 291.5 | 288.6 |
| 20 | 254.00 | 0.00 | -22.00 | 51.901 | 4.027 | 0.015 | 292.3 | 282.0 | 291.4 | 288.1 |
| 21 | 254.00 | 0.00 | -21.00 | 51.877 | 4.365 | 0.013 | 292.7 | 282.0 | 291.5 | 287.9 |
| 22 | 254.00 | 0.00 | -20.00 | 51.907 | 4.751 | 0.015 | 292.7 | 282.0 | 291.5 | 287.6 |
| 23 | 254.00 | 0.00 | -19.00 | 51.708 | 5.224 | 0.015 | 292.5 | 281.9 | 291.5 | 287.3 |
| 24 | 254.00 | 0.00 | -18.00 | 51.987 | 5.661 | 0.013 | 292.5 | 281.9 | 291.6 | 287.0 |
| 25 | 254.00 | 0.00 | -17.00 | 51.966 | 6.004 | 0.018 | 292.0 | 281.9 | 291.6 | 286.7 |
| 26 | 254.00 | 0.00 | -16.00 | 51.919 | 6.411 | 0.019 | 291.9 | 282.0 | 291.6 | 286.4 |
| 27 | 254.00 | 0.00 | -15.00 | 51.843 | 6.753 | 0.018 | 291.8 | 281.9 | 291.6 | 286.2 |
| 28 | 254.00 | 0.00 | -14.00 | 51.814 | 7.197 | 0.018 | 291.9 | 281.9 | 291.6 | 285.8 |
| 29 | 254.00 | 0.00 | -13.00 | 51.687 | 7.727 | 0.017 | 291.8 | 281.9 | 291.6 | 285.4 |
| 30 | 254.00 | 0.00 | -12.00 | 51.457 | 7.855 | 0.017 | 291.8 | 281.9 | 291.5 | 285.2 |
| 31 | 254.00 | 0.00 | -11.00 | 51.735 | 8.535 | 0.019 | 291.7 | 281.9 | 291.5 | 284.7 |
| 32 | 254.00 | 0.00 | -10.00 | 51.570 | 8.820 | 0.020 | 291.8 | 281.9 | 291.5 | 284.5 |
| 33 | 254.00 | 0.00 | -9.00 | 51.587 | 9.240 | 0.017 | 291.8 | 281.9 | 291.6 | 284.3 |
| 34 | 254.00 | 0.00 | -8.00 | 51.529 | 9.832 | 0.020 | 291.8 | 281.9 | 291.6 | 283.8 |
| 35 | 254.00 | 0.00 | -7.00 | 51.907 | 10.168 | 0.017 | 292.0 | 281.9 | 291.6 | 283.6 |
| 36 | 254.00 | 0.00 | -6.00 | 51.987 | 10.496 | 0.018 | 291.9 | 281.9 | 291.6 | 283.3 |
| 37 | 254.00 | 0.00 | -5.00 | 52.029 | 10.858 | 0.021 | 291.8 | 282.0 | 291.7 | 283.2 |
| 38 | 254.00 | 0.00 | -4.00 | 52.083 | 11.171 | 0.021 | 291.9 | 282.0 | 291.7 | 282.9 |
| 39 | 254.00 | 0.00 | -3.00 | 51.887 | 11.331 | 0.026 | 291.8 | 282.0 | 291.7 | 282.8 |
| 40 | 254.00 | 0.00 | -2.00 | 52.022 | 11.493 | 0.020 | 291.9 | 282.0 | 291.7 | 282.7 |
| 41 | 254.00 | 0.00 | -1.00 | 51.853 | 11.678 | 0.022 | 291.8 | 282.0 | 291.7 | 282.6 |
| 42 | 254.00 | 0.00 | 0.00 | 51.836 | 11.751 | 0.023 | 291.9 | 282.0 | 291.7 | 282.5 |
| 43 | 254.00 | 0.00 | 1.00 | 51.698 | 11.773 | 0.024 | 291.9 | 282.0 | 291.7 | 282.5 |
| 44 | 254.00 | 0.00 | 2.00 | 51.477 | 11.683 | 0.023 | 291.9 | 282.0 | 291.7 | 282.6 |
| 45 | 254.00 | 0.00 | 3.00 | 51.558 | 11.530 | 0.025 | 291.9 | 282.0 | 291.7 | 282.7 |
| 46 | 254.00 | 0.00 | 4.00 | 51.641 | 11.523 | 0.025 | 291.9 | 282.0 | 291.7 | 282.7 |
| 47 | 254.00 | 0.00 | 5.00 | 51.498 | 11.472 | 0.024 | 291.9 | 282.0 | 291.7 | 282.7 |
| 48 | 254.00 | 0.00 | 6.00 | 51.418 | 11.111 | 0.025 | 291.9 | 282.0 | 291.8 | 283.1 |
| 49 | 254.00 | 0.00 | 7.00 | 51.675 | 10.948 | 0.028 | 292.0 | 282.0 | 291.8 | 283.2 |
| 50 | 254.00 | 0.00 | 8.00 | 51.664 | 10.569 | 0.022 | 292.3 | 282.0 | 291.8 | 283.5 |
| 51 | 254.00 | 0.00 | 9.00 | 51.874 | 10.644 | 0.021 | 292.7 | 282.0 | 291.9 | 283.5 |
| 52 | 254.00 | 0.00 | 10.00 | 52.025 | 10.069 | 0.025 | 292.9 | 282.0 | 291.9 | 283.9 |

File : TAB308T 7-FEB-89
7-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG I(B)

C1 : X/D = 5
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.578 kPa

Mean gauged plenum pressure : 51.256 kPa
RMS gauged plenum pressure : 0.167 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | -0.60 | 51.295 | 0.037 | 0.018 | 277.4 | 278.8 | 276.8 | 276.8 |
| 3 | 254.00 | -95.00 | -0.60 | 51.388 | 0.092 | 0.018 | 277.6 | 279.0 | 276.9 | 276.8 |
| 4 | 254.00 | -90.00 | -0.60 | 51.346 | 0.325 | 0.016 | 277.6 | 279.2 | 277.0 | 276.7 |
| 5 | 254.00 | -85.00 | -0.60 | 51.318 | 0.892 | 0.014 | 277.7 | 279.3 | 277.1 | 276.4 |
| 6 | 254.00 | -80.00 | -0.60 | 51.344 | 1.134 | 0.021 | 277.6 | 279.5 | 277.1 | 276.2 |
| 7 | 254.00 | -75.00 | -0.60 | 51.113 | 1.851 | 0.021 | 277.5 | 279.5 | 277.1 | 275.6 |
| 8 | 254.00 | -70.00 | -0.60 | 51.201 | 2.673 | 0.024 | 277.6 | 279.5 | 277.1 | 275.0 |
| 9 | 254.00 | -65.00 | -0.60 | 51.193 | 4.533 | 0.022 | 277.6 | 279.5 | 277.0 | 273.5 |
| 10 | 254.00 | -60.00 | -0.60 | 51.170 | 5.742 | 0.022 | 277.5 | 279.6 | 277.0 | 272.5 |
| 11 | 254.00 | -55.00 | -0.60 | 51.321 | 8.376 | 0.024 | 277.6 | 279.7 | 277.1 | 270.7 |
| 12 | 254.00 | -50.00 | -0.60 | 51.355 | 11.552 | 0.021 | 277.6 | 279.8 | 277.2 | 268.5 |
| 13 | 254.00 | -45.00 | -0.60 | 51.262 | 16.061 | 0.019 | 277.6 | 279.9 | 277.2 | 265.5 |
| 14 | 254.00 | -40.00 | -0.60 | 51.409 | 21.905 | 0.023 | 277.7 | 280.0 | 277.3 | 261.8 |
| 15 | 254.00 | -35.00 | -0.60 | 51.285 | 28.550 | 0.019 | 277.6 | 280.0 | 277.3 | 257.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -30.00 | -0.60 | 51.382 | 34.092 | 0.023 | 277.8 | 280.0 | 277.3 | 254.7 |
| 17 | 254.00 | -25.00 | -0.60 | 51.410 | 34.411 | 0.026 | 277.9 | 280.0 | 277.4 | 254.6 |
| 18 | 254.00 | -20.00 | -0.60 | 51.181 | 27.639 | 0.025 | 277.8 | 280.0 | 277.3 | 258.3 |
| 19 | 254.00 | -15.00 | -0.60 | 50.787 | 19.720 | 0.019 | 278.0 | 280.0 | 277.4 | 263.3 |
| 20 | 254.00 | -10.00 | -0.60 | 51.181 | 14.121 | 0.023 | 277.8 | 280.1 | 277.4 | 267.0 |
| 21 | 254.00 | -5.00 | -0.60 | 51.057 | 11.789 | 0.023 | 277.9 | 280.1 | 277.4 | 268.6 |
| 22 | 254.00 | 0.00 | -0.60 | 51.322 | 11.996 | 0.024 | 278.0 | 280.1 | 277.5 | 268.5 |
| 23 | 254.00 | 5.00 | -0.60 | 51.446 | 14.542 | 0.024 | 277.9 | 280.1 | 277.4 | 266.7 |
| 24 | 254.00 | 10.00 | -0.60 | 51.280 | 20.724 | 0.025 | 277.8 | 280.2 | 277.4 | 262.6 |
| 25 | 254.00 | 15.00 | -0.60 | 51.417 | 29.209 | 0.020 | 277.9 | 280.2 | 277.4 | 257.5 |
| 26 | 254.00 | 20.00 | -0.60 | 51.085 | 34.899 | 0.028 | 277.8 | 280.2 | 277.5 | 254.4 |
| 27 | 254.00 | 25.00 | -0.60 | 51.188 | 33.901 | 0.028 | 277.7 | 280.2 | 277.4 | 254.9 |
| 28 | 254.00 | 30.00 | -0.60 | 51.239 | 24.194 | 0.021 | 277.8 | 280.1 | 277.5 | 260.6 |
| 29 | 254.00 | 35.00 | -0.60 | 51.133 | 15.690 | 0.018 | 278.0 | 280.2 | 277.5 | 266.0 |
| 30 | 254.00 | 40.00 | -0.60 | 51.123 | 9.189 | 0.022 | 278.0 | 280.1 | 277.5 | 270.5 |
| 31 | 254.00 | 45.00 | -0.60 | 51.286 | 5.640 | 0.022 | 278.0 | 280.1 | 277.5 | 273.1 |
| 32 | 254.00 | 50.00 | -0.60 | 51.298 | 3.637 | 0.031 | 277.9 | 280.0 | 277.4 | 274.5 |
| 33 | 254.00 | 55.00 | -0.60 | 51.209 | 2.504 | 0.029 | 277.7 | 280.1 | 277.4 | 275.4 |
| 34 | 254.00 | 60.00 | -0.60 | 51.355 | 2.207 | 0.023 | 277.7 | 280.1 | 277.4 | 275.6 |
| 35 | 254.00 | 65.00 | -0.60 | 51.508 | 1.473 | 0.024 | 277.7 | 280.2 | 277.4 | 276.2 |
| 36 | 254.00 | 70.00 | -0.60 | 51.348 | 1.009 | 0.021 | 277.8 | 280.2 | 277.4 | 276.6 |
| 37 | 254.00 | 75.00 | -0.60 | 51.171 | 0.552 | 0.024 | 278.0 | 280.2 | 277.4 | 277.0 |
| 38 | 254.00 | 80.00 | -0.60 | 51.332 | 0.341 | 0.025 | 278.1 | 280.2 | 277.5 | 277.2 |
| 39 | 254.00 | 85.00 | -0.60 | 51.271 | 0.049 | 0.026 | 277.9 | 280.2 | 277.4 | 277.4 |
| 40 | 254.00 | 90.00 | -0.60 | 51.160 | 0.013 | 0.023 | 277.9 | 280.2 | 277.4 | 277.4 |
| 41 | 254.00 | 95.00 | -0.60 | 51.181 | 0.012 | 0.022 | 278.0 | 280.1 | 277.5 | 277.5 |
| 42 | 254.00 | 100.00 | -0.60 | 51.251 | 0.012 | 0.019 | 278.5 | 280.1 | 277.6 | 277.6 |

File : TAB316T 13-FEB-89
13-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG I(B)

C1 : X/D = 2
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.510 kPa

Mean gauged plenum pressure : 51.439 kPa
RMS gauged plenum pressure : 0.180 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 101.60 | -75.00 | 0.00 | 51.632 | 0.019 | 0.019 | 294.7 | 282.4 | 293.7 | 293.7 |
| 3 | 101.60 | -72.00 | 0.00 | 51.505 | 0.149 | 0.018 | 294.6 | 282.3 | 293.8 | 293.7 |
| 4 | 101.60 | -69.00 | 0.00 | 51.468 | 1.449 | 0.018 | 294.8 | 282.2 | 293.8 | 292.6 |
| 5 | 101.60 | -66.00 | 0.00 | 51.526 | 3.611 | 0.024 | 294.7 | 282.1 | 293.8 | 290.8 |
| 6 | 101.60 | -63.00 | 0.00 | 51.591 | 8.161 | 0.024 | 294.6 | 282.2 | 293.9 | 287.3 |
| 7 | 101.60 | -60.00 | 0.00 | 51.598 | 12.524 | 0.023 | 294.5 | 282.2 | 293.8 | 283.9 |
| 8 | 101.60 | -57.00 | 0.00 | 51.449 | 15.495 | 0.025 | 294.4 | 282.1 | 293.8 | 281.8 |
| 9 | 101.60 | -54.00 | 0.00 | 51.402 | 17.485 | 0.029 | 294.2 | 282.1 | 293.8 | 280.4 |
| 10 | 101.60 | -51.00 | 0.00 | 51.348 | 20.983 | 0.023 | 294.3 | 282.0 | 293.8 | 278.0 |
| 11 | 101.60 | -48.00 | 0.00 | 51.344 | 26.486 | 0.024 | 294.2 | 281.9 | 293.8 | 274.4 |
| 12 | 101.60 | -45.00 | 0.00 | 51.146 | 35.783 | 0.022 | 294.5 | 281.9 | 293.8 | 268.9 |
| 13 | 101.60 | -42.00 | 0.00 | 51.384 | 44.059 | 0.019 | 294.7 | 281.9 | 293.9 | 264.4 |
| 14 | 101.60 | -39.00 | 0.00 | 51.636 | 49.764 | 0.020 | 294.6 | 282.0 | 294.0 | 261.5 |
| 15 | 101.60 | -36.00 | 0.00 | 51.527 | 50.987 | 0.026 | 294.5 | 282.0 | 294.0 | 260.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 101.60 | -33.00 | 0.00 | 51.580 | 51.230 | 0.026 | 294.7 | 282.0 | 294.1 | 260.9 |
| 17 | 101.60 | -30.00 | 0.00 | 51.302 | 51.161 | 0.028 | 295.2 | 282.0 | 294.2 | 261.0 |
| 18 | 101.60 | -27.00 | 0.00 | 51.027 | 51.014 | 0.026 | 295.5 | 281.9 | 294.2 | 261.1 |
| 19 | 101.60 | -24.00 | 0.00 | 51.265 | 51.168 | 0.024 | 295.3 | 281.9 | 294.2 | 261.0 |
| 20 | 101.60 | -21.00 | 0.00 | 51.318 | 51.274 | 0.018 | 295.9 | 281.8 | 294.2 | 260.9 |
| 21 | 101.60 | -18.00 | 0.00 | 51.295 | 51.265 | 0.022 | 295.9 | 281.8 | 294.3 | 261.0 |
| 22 | 101.60 | -15.00 | 0.00 | 51.302 | 50.668 | 0.028 | 295.4 | 281.8 | 294.4 | 261.4 |
| 23 | 101.60 | -12.00 | 0.00 | 51.363 | 48.548 | 0.028 | 294.9 | 281.9 | 294.3 | 262.4 |
| 24 | 101.60 | -9.00 | 0.00 | 51.596 | 43.235 | 0.024 | 295.0 | 282.0 | 294.4 | 265.3 |
| 25 | 101.60 | -6.00 | 0.00 | 51.538 | 37.548 | 0.027 | 294.7 | 282.1 | 294.4 | 268.4 |
| 26 | 101.60 | -3.00 | 0.00 | 51.453 | 31.885 | 0.031 | 294.4 | 282.0 | 294.3 | 271.6 |
| 27 | 101.60 | 0.00 | 0.00 | 51.295 | 29.428 | 0.025 | 294.3 | 282.0 | 294.2 | 273.0 |
| 28 | 101.60 | 3.00 | 0.00 | 51.350 | 29.196 | 0.019 | 294.2 | 282.0 | 294.2 | 273.1 |
| 29 | 101.60 | 6.00 | 0.00 | 51.222 | 32.797 | 0.019 | 294.2 | 281.9 | 294.1 | 270.9 |
| 30 | 101.60 | 9.00 | 0.00 | 51.330 | 37.430 | 0.022 | 294.3 | 281.9 | 294.1 | 268.2 |
| 31 | 101.60 | 12.00 | 0.00 | 51.588 | 46.031 | 0.018 | 294.4 | 281.9 | 294.0 | 263.4 |
| 32 | 101.60 | 15.00 | 0.00 | 51.703 | 50.173 | 0.018 | 294.6 | 282.0 | 294.1 | 261.4 |
| 33 | 101.60 | 18.00 | 0.00 | 51.609 | 51.466 | 0.021 | 294.6 | 282.1 | 294.1 | 260.7 |
| 34 | 101.60 | 21.00 | 0.00 | 51.376 | 51.349 | 0.020 | 294.3 | 282.0 | 294.1 | 260.8 |
| 35 | 101.60 | 24.00 | 0.00 | 51.379 | 51.310 | 0.018 | 294.3 | 281.9 | 294.0 | 260.7 |
| 36 | 101.60 | 27.00 | 0.00 | 51.358 | 51.306 | 0.015 | 294.3 | 281.9 | 294.0 | 260.7 |
| 37 | 101.60 | 30.00 | 0.00 | 51.323 | 51.250 | 0.014 | 294.4 | 281.8 | 294.0 | 260.8 |
| 38 | 101.60 | 33.00 | 0.00 | 51.648 | 51.327 | 0.020 | 294.4 | 281.9 | 294.0 | 260.7 |
| 39 | 101.60 | 36.00 | 0.00 | 51.682 | 50.543 | 0.016 | 294.4 | 281.9 | 294.0 | 261.1 |
| 40 | 101.60 | 39.00 | 0.00 | 51.598 | 48.621 | 0.018 | 294.1 | 281.9 | 293.9 | 262.0 |
| 41 | 101.60 | 42.00 | 0.00 | 51.523 | 44.123 | 0.014 | 294.1 | 281.7 | 293.8 | 264.3 |
| 42 | 101.60 | 45.00 | 0.00 | 51.310 | 38.372 | 0.016 | 294.0 | 281.7 | 293.9 | 267.5 |
| 43 | 101.60 | 48.00 | 0.00 | 51.248 | 27.296 | 0.017 | 293.8 | 281.7 | 293.8 | 273.9 |
| 44 | 101.60 | 51.00 | 0.00 | 51.341 | 20.615 | 0.016 | 293.8 | 281.6 | 293.7 | 278.2 |
| 45 | 101.60 | 54.00 | 0.00 | 51.491 | 15.576 | 0.014 | 293.9 | 281.6 | 293.6 | 281.5 |
| 46 | 101.60 | 57.00 | 0.00 | 51.660 | 12.266 | 0.019 | 293.7 | 281.7 | 293.6 | 283.9 |
| 47 | 101.60 | 60.00 | 0.00 | 51.467 | 9.665 | 0.015 | 293.8 | 281.7 | 293.5 | 285.7 |
| 48 | 101.60 | 63.00 | 0.00 | 51.466 | 7.470 | 0.014 | 293.9 | 281.7 | 293.5 | 287.4 |
| 49 | 101.60 | 66.00 | 0.00 | 51.485 | 4.655 | 0.016 | 293.8 | 281.7 | 293.5 | 289.6 |
| 50 | 101.60 | 69.00 | 0.00 | 51.375 | 2.053 | 0.016 | 293.9 | 281.7 | 293.6 | 291.9 |
| 51 | 101.60 | 72.00 | 0.00 | 51.361 | 0.348 | 0.021 | 294.0 | 281.7 | 293.6 | 293.3 |
| 52 | 101.60 | 75.00 | 0.00 | 51.429 | 0.022 | 0.016 | 294.1 | 281.7 | 293.7 | 293.7 |

File : TAB317T 14-FEB-89
14-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG I(B)

C1 : X/D = 2
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.916 kPa

Mean gauged plenum pressure : 51.541 kPa
RMS gauged plenum pressure : 0.141 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 101.60 | 0.00 | -20.00 | 51.452 | 0.020 | 0.011 | 291.4 | 282.5 | 290.9 | 290.9 |
| 3 | 101.60 | 0.00 | -19.50 | 51.354 | 0.011 | 0.011 | 291.3 | 282.3 | 290.8 | 290.8 |
| 4 | 101.60 | 0.00 | -19.00 | 51.425 | 0.023 | 0.011 | 291.3 | 282.2 | 290.9 | 290.9 |
| 5 | 101.60 | 0.00 | -18.50 | 51.542 | 0.033 | 0.012 | 291.3 | 282.2 | 290.9 | 290.9 |
| 6 | 101.60 | 0.00 | -18.00 | 51.494 | 0.106 | 0.012 | 291.4 | 282.1 | 290.9 | 290.8 |
| 7 | 101.60 | 0.00 | -17.50 | 51.567 | 0.158 | 0.012 | 291.4 | 282.0 | 290.9 | 290.8 |
| 8 | 101.60 | 0.00 | -17.00 | 51.457 | 0.242 | 0.012 | 291.4 | 282.0 | 290.8 | 290.6 |
| 9 | 101.60 | 0.00 | -16.50 | 51.681 | 0.331 | 0.012 | 291.3 | 281.9 | 290.8 | 290.5 |
| 10 | 101.60 | 0.00 | -16.00 | 51.602 | 0.431 | 0.012 | 291.4 | 282.0 | 290.9 | 290.5 |
| 11 | 101.60 | 0.00 | -15.50 | 51.657 | 0.597 | 0.012 | 291.4 | 281.9 | 290.8 | 290.3 |
| 12 | 101.60 | 0.00 | -15.00 | 51.783 | 0.724 | 0.012 | 291.4 | 281.9 | 290.9 | 290.3 |
| 13 | 101.60 | 0.00 | -14.50 | 51.599 | 0.872 | 0.012 | 291.4 | 281.9 | 290.8 | 290.1 |
| 14 | 101.60 | 0.00 | -14.00 | 51.518 | 1.039 | 0.012 | 291.5 | 281.9 | 290.9 | 290.0 |
| 15 | 101.60 | 0.00 | -13.50 | 51.448 | 1.306 | 0.012 | 291.5 | 281.9 | 290.9 | 289.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 101.60 | 0.00 | -13.00 | 51.438 | 1.593 | 0.012 | 291.7 | 281.9 | 290.9 | 289.6 |
| 17 | 101.60 | 0.00 | -12.50 | 51.518 | 1.906 | 0.013 | 291.6 | 281.9 | 291.0 | 289.4 |
| 18 | 101.60 | 0.00 | -12.00 | 51.534 | 2.282 | 0.012 | 291.4 | 281.9 | 291.0 | 289.1 |
| 19 | 101.60 | 0.00 | -11.50 | 51.388 | 2.695 | 0.014 | 291.4 | 281.9 | 291.0 | 288.8 |
| 20 | 101.60 | 0.00 | -11.00 | 51.632 | 3.336 | 0.012 | 291.7 | 281.9 | 291.1 | 288.4 |
| 21 | 101.60 | 0.00 | -10.50 | 51.759 | 3.980 | 0.014 | 291.8 | 281.9 | 291.1 | 287.8 |
| 22 | 101.60 | 0.00 | -10.00 | 51.593 | 4.795 | 0.016 | 291.8 | 281.8 | 291.2 | 287.3 |
| 23 | 101.60 | 0.00 | -9.50 | 51.616 | 5.623 | 0.014 | 292.1 | 281.8 | 291.2 | 286.6 |
| 24 | 101.60 | 0.00 | -9.00 | 51.668 | 6.802 | 0.014 | 292.5 | 281.7 | 291.2 | 285.7 |
| 25 | 101.60 | 0.00 | -8.50 | 51.555 | 8.019 | 0.016 | 292.7 | 281.7 | 291.2 | 284.8 |
| 26 | 101.60 | 0.00 | -8.00 | 51.564 | 9.385 | 0.015 | 292.2 | 281.7 | 291.2 | 283.7 |
| 27 | 101.60 | 0.00 | -7.50 | 51.411 | 10.580 | 0.014 | 292.5 | 281.8 | 291.2 | 282.9 |
| 28 | 101.60 | 0.00 | -7.00 | 51.028 | 12.184 | 0.013 | 292.4 | 281.7 | 291.2 | 281.7 |
| 29 | 101.60 | 0.00 | -6.50 | 51.527 | 14.213 | 0.015 | 292.1 | 281.7 | 291.2 | 280.2 |
| 30 | 101.60 | 0.00 | -6.00 | 51.452 | 15.870 | 0.018 | 291.9 | 281.7 | 291.2 | 279.1 |
| 31 | 101.60 | 0.00 | -5.50 | 51.516 | 18.070 | 0.016 | 292.0 | 281.8 | 291.3 | 277.6 |
| 32 | 101.60 | 0.00 | -5.00 | 51.689 | 19.875 | 0.016 | 292.0 | 281.8 | 291.3 | 276.4 |
| 33 | 101.60 | 0.00 | -4.50 | 51.640 | 22.118 | 0.017 | 292.1 | 281.8 | 291.4 | 275.0 |
| 34 | 101.60 | 0.00 | -4.00 | 51.609 | 23.636 | 0.015 | 292.2 | 281.9 | 291.5 | 274.2 |
| 35 | 101.60 | 0.00 | -3.50 | 51.579 | 25.455 | 0.020 | 292.3 | 281.9 | 291.6 | 273.1 |
| 36 | 101.60 | 0.00 | -3.00 | 51.561 | 26.990 | 0.013 | 292.4 | 281.9 | 291.6 | 272.1 |
| 37 | 101.60 | 0.00 | -2.50 | 51.640 | 28.357 | 0.017 | 292.5 | 281.9 | 291.7 | 271.4 |
| 38 | 101.60 | 0.00 | -2.00 | 51.509 | 29.282 | 0.018 | 292.6 | 281.9 | 291.8 | 270.9 |
| 39 | 101.60 | 0.00 | -1.50 | 51.558 | 29.788 | 0.017 | 292.6 | 281.9 | 291.9 | 270.7 |
| 40 | 101.60 | 0.00 | -1.00 | 51.540 | 30.027 | 0.017 | 292.7 | 281.9 | 291.9 | 270.6 |
| 41 | 101.60 | 0.00 | -0.50 | 51.542 | 29.947 | 0.019 | 292.6 | 281.9 | 292.0 | 270.7 |
| 42 | 101.60 | 0.00 | 0.00 | 51.525 | 29.295 | 0.023 | 292.5 | 281.9 | 292.0 | 271.1 |
| 43 | 101.60 | 0.00 | 0.50 | 51.504 | 28.787 | 0.018 | 292.5 | 281.9 | 292.0 | 271.4 |
| 44 | 101.60 | 0.00 | 1.00 | 51.579 | 27.760 | 0.015 | 292.6 | 281.8 | 292.0 | 272.0 |
| 45 | 101.60 | 0.00 | 1.50 | 51.551 | 26.585 | 0.017 | 292.7 | 281.8 | 292.0 | 272.8 |
| 46 | 101.60 | 0.00 | 2.00 | 51.518 | 25.060 | 0.015 | 292.8 | 281.8 | 292.0 | 273.7 |
| 47 | 101.60 | 0.00 | 2.50 | 51.579 | 23.875 | 0.017 | 292.7 | 281.8 | 292.0 | 274.5 |
| 48 | 101.60 | 0.00 | 3.00 | 51.613 | 22.369 | 0.013 | 292.6 | 281.9 | 292.0 | 275.4 |
| 49 | 101.60 | 0.00 | 3.50 | 51.740 | 20.916 | 0.014 | 292.6 | 281.9 | 292.1 | 276.5 |
| 50 | 101.60 | 0.00 | 4.00 | 51.605 | 19.074 | 0.017 | 292.6 | 281.9 | 292.1 | 277.7 |
| 51 | 101.60 | 0.00 | 4.50 | 51.480 | 17.598 | 0.015 | 292.8 | 281.9 | 292.2 | 278.8 |
| 52 | 101.60 | 0.00 | 5.00 | 51.447 | 15.985 | 0.012 | 293.0 | 281.9 | 292.3 | 280.0 |

File : TAB313T 9-FEB-89
9-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG I(B)

C1 : X/D = 2
C2 : DIAGONAL
C3 : 1 MM
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 99.763 kPa

Mean gauged plenum pressure : 52.010 kPa
RMS gauged plenum pressure : 0.136 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 101.60 | -75.00 | 1.00 | 52.031 | 0.023 | 0.014 | 275.5 | 279.0 | 274.2 | 274.2 |
| 3 | 101.60 | -72.00 | 1.00 | 52.077 | 0.012 | 0.012 | 275.6 | 279.0 | 274.3 | 274.3 |
| 4 | 101.60 | -69.00 | 1.00 | 52.000 | 0.008 | 0.015 | 275.6 | 278.9 | 274.4 | 274.4 |
| 5 | 101.60 | -66.00 | 1.00 | 52.040 | 0.028 | 0.014 | 275.6 | 278.9 | 274.5 | 274.5 |
| 6 | 101.60 | -63.00 | 1.00 | 52.016 | 0.160 | 0.014 | 275.8 | 278.9 | 274.6 | 274.5 |
| 7 | 101.60 | -60.00 | 1.00 | 52.043 | 0.251 | 0.016 | 275.7 | 278.9 | 274.6 | 274.4 |
| 8 | 101.60 | -57.00 | 1.00 | 52.076 | 0.492 | 0.014 | 275.9 | 278.9 | 274.6 | 274.2 |
| 9 | 101.60 | -54.00 | 1.00 | 52.028 | 0.857 | 0.015 | 275.5 | 278.9 | 274.6 | 273.9 |
| 10 | 101.60 | -51.00 | 1.00 | 52.007 | 2.233 | 0.017 | 275.5 | 278.9 | 274.6 | 272.9 |
| 11 | 101.60 | -48.00 | 1.00 | 51.944 | 5.933 | 0.017 | 275.4 | 278.9 | 274.4 | 269.9 |
| 12 | 101.60 | -45.00 | 1.00 | 52.013 | 10.932 | 0.015 | 275.6 | 278.9 | 274.5 | 266.4 |
| 13 | 101.60 | -42.00 | 1.00 | 52.006 | 17.315 | 0.013 | 275.8 | 278.9 | 274.5 | 262.2 |
| 14 | 101.60 | -39.00 | 1.00 | 52.133 | 24.478 | 0.015 | 275.7 | 279.0 | 274.6 | 257.9 |
| 15 | 101.60 | -36.00 | 1.00 | 52.071 | 31.764 | 0.017 | 275.8 | 279.0 | 274.5 | 253.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 101.60 | -33.00 | 1.00 | 52.080 | 38.865 | 0.025 | 275.8 | 278.9 | 274.6 | 249.9 |
| 17 | 101.60 | -30.00 | 1.00 | 51.928 | 44.279 | 0.020 | 275.6 | 278.9 | 274.5 | 247.1 |
| 18 | 101.60 | -27.00 | 1.00 | 52.123 | 47.983 | 0.014 | 275.5 | 278.9 | 274.5 | 245.3 |
| 19 | 101.60 | -24.00 | 1.00 | 52.047 | 50.073 | 0.018 | 275.3 | 278.9 | 274.4 | 244.2 |
| 20 | 101.60 | -21.00 | 1.00 | 52.104 | 51.192 | 0.021 | 275.1 | 278.9 | 274.4 | 243.7 |
| 21 | 101.60 | -18.00 | 1.00 | 52.088 | 51.850 | 0.020 | 275.2 | 278.9 | 274.3 | 243.3 |
| 22 | 101.60 | -15.00 | 1.00 | 52.034 | 51.821 | 0.018 | 275.4 | 278.9 | 274.4 | 243.4 |
| 23 | 101.60 | -12.00 | 1.00 | 51.951 | 48.977 | 0.023 | 275.5 | 279.0 | 274.4 | 244.7 |
| 24 | 101.60 | -9.00 | 1.00 | 51.966 | 42.232 | 0.018 | 275.7 | 279.0 | 274.5 | 248.1 |
| 25 | 101.60 | -6.00 | 1.00 | 51.924 | 34.768 | 0.021 | 275.7 | 279.1 | 274.5 | 252.0 |
| 26 | 101.60 | -3.00 | 1.00 | 51.953 | 30.482 | 0.017 | 276.0 | 279.1 | 274.5 | 254.3 |
| 27 | 101.60 | 0.00 | 1.00 | 52.000 | 29.660 | 0.024 | 275.9 | 279.1 | 274.7 | 255.0 |
| 28 | 101.60 | 3.00 | 1.00 | 52.046 | 31.055 | 0.019 | 275.8 | 279.1 | 274.7 | 254.2 |
| 29 | 101.60 | 6.00 | 1.00 | 52.025 | 33.190 | 0.020 | 275.6 | 279.1 | 274.7 | 253.0 |
| 30 | 101.60 | 9.00 | 1.00 | 52.042 | 35.050 | 0.019 | 275.8 | 279.0 | 274.7 | 252.0 |
| 31 | 101.60 | 12.00 | 1.00 | 52.079 | 39.557 | 0.014 | 275.8 | 279.0 | 274.7 | 249.6 |
| 32 | 101.60 | 15.00 | 1.00 | 52.151 | 46.708 | 0.014 | 275.8 | 279.0 | 274.7 | 246.1 |
| 33 | 101.60 | 18.00 | 1.00 | 52.042 | 50.947 | 0.017 | 275.7 | 279.0 | 274.7 | 244.1 |
| 34 | 101.60 | 21.00 | 1.00 | 52.078 | 51.550 | 0.017 | 275.6 | 279.0 | 274.6 | 243.7 |
| 35 | 101.60 | 24.00 | 1.00 | 52.097 | 50.728 | 0.019 | 275.7 | 279.0 | 274.7 | 244.2 |
| 36 | 101.60 | 27.00 | 1.00 | 51.982 | 49.352 | 0.013 | 275.8 | 279.0 | 274.8 | 244.9 |
| 37 | 101.60 | 30.00 | 1.00 | 51.979 | 47.442 | 0.015 | 275.8 | 279.0 | 274.7 | 245.7 |
| 38 | 101.60 | 33.00 | 1.00 | 51.985 | 38.856 | 0.012 | 276.1 | 279.1 | 274.7 | 250.0 |
| 39 | 101.60 | 36.00 | 1.00 | 51.884 | 26.390 | 0.013 | 276.3 | 279.1 | 274.8 | 256.9 |
| 40 | 101.60 | 39.00 | 1.00 | 51.848 | 13.938 | 0.015 | 275.8 | 279.1 | 274.7 | 264.6 |
| 41 | 101.60 | 42.00 | 1.00 | 51.700 | 6.180 | 0.013 | 276.0 | 279.1 | 274.7 | 270.0 |
| 42 | 101.60 | 45.00 | 1.00 | 51.569 | 2.747 | 0.013 | 276.2 | 279.1 | 274.8 | 272.7 |
| 43 | 101.60 | 48.00 | 1.00 | 51.499 | 0.694 | 0.012 | 276.1 | 279.0 | 274.8 | 274.3 |
| 44 | 101.60 | 51.00 | 1.00 | 52.018 | 0.171 | 0.012 | 275.9 | 279.0 | 274.8 | 274.7 |
| 45 | 101.60 | 54.00 | 1.00 | 52.030 | 0.121 | 0.012 | 275.9 | 279.0 | 274.8 | 274.7 |
| 46 | 101.60 | 57.00 | 1.00 | 52.037 | 0.039 | 0.014 | 275.9 | 279.0 | 274.8 | 274.8 |
| 47 | 101.60 | 60.00 | 1.00 | 52.014 | 0.054 | 0.013 | 275.8 | 278.9 | 274.7 | 274.7 |
| 48 | 101.60 | 63.00 | 1.00 | 51.986 | 0.018 | 0.012 | 275.8 | 278.8 | 274.6 | 274.6 |
| 49 | 101.60 | 66.00 | 1.00 | 52.046 | 0.006 | 0.012 | 276.0 | 278.8 | 274.6 | 274.6 |
| 50 | 101.60 | 69.00 | 1.00 | 52.168 | 0.009 | 0.016 | 275.6 | 278.8 | 274.6 | 274.6 |
| 51 | 101.60 | 72.00 | 1.00 | 52.030 | 0.008 | 0.014 | 275.6 | 278.8 | 274.6 | 274.6 |
| 52 | 101.60 | 75.00 | 1.00 | 52.122 | 0.009 | 0.016 | 275.4 | 278.8 | 274.5 | 274.5 |

File : TAB286T 27-JAN-89
27-JAN-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG III(B)

C1 : X/D = 15
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.612 kPa

Mean gauged plenum pressure : 51.227 kPa
RMS gauged plenum pressure : 0.110 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 762.00 | -160.00 | 0.00 | 51.344 | 0.020 | 0.014 | 281.3 | 279.4 | 280.8 | 280.8 |
| 3 | 762.00 | -152.00 | 0.00 | 51.333 | 0.018 | 0.018 | 281.5 | 279.4 | 281.0 | 281.0 |
| 4 | 762.00 | -144.00 | 0.00 | 51.287 | 0.061 | 0.021 | 281.5 | 279.4 | 281.0 | 281.0 |
| 5 | 762.00 | -136.00 | 0.00 | 51.258 | 0.139 | 0.021 | 281.5 | 279.4 | 281.1 | 281.0 |
| 6 | 762.00 | -128.00 | 0.00 | 51.258 | 0.208 | 0.021 | 281.4 | 279.4 | 281.2 | 281.0 |
| 7 | 762.00 | -120.00 | 0.00 | 51.220 | 0.422 | 0.022 | 281.6 | 279.4 | 281.2 | 280.9 |
| 8 | 762.00 | -112.00 | 0.00 | 51.233 | 0.640 | 0.021 | 281.6 | 279.4 | 281.2 | 280.7 |
| 9 | 762.00 | -104.00 | 0.00 | 51.234 | 0.928 | 0.020 | 281.6 | 279.4 | 281.2 | 280.4 |
| 10 | 762.00 | -96.00 | 0.00 | 51.247 | 1.454 | 0.017 | 281.6 | 279.4 | 281.5 | 280.3 |
| 11 | 762.00 | -88.00 | 0.00 | 51.237 | 1.844 | 0.016 | 281.7 | 279.4 | 263.4 | 262.0 |
| 12 | 762.00 | -80.00 | 0.00 | 51.234 | 2.251 | 0.016 | 281.8 | 279.4 | 285.8 | 284.0 |
| 13 | 762.00 | -72.00 | 0.00 | 51.226 | 3.085 | 0.014 | 281.9 | 279.4 | 283.1 | 280.6 |
| 14 | 762.00 | -64.00 | 0.00 | 51.232 | 3.562 | 0.014 | 281.9 | 279.4 | 304.2 | 301.1 |
| 15 | 762.00 | -56.00 | 0.00 | 51.216 | 4.357 | 0.013 | 281.9 | 279.5 | 93.5 | 92.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 762.00 | -48.00 | 0.00 | 51.220 | 5.103 | 0.012 | 281.9 | 279.4 | 0.0 | 0.0 |
| 17 | 762.00 | -40.00 | 0.00 | 51.198 | 5.512 | 0.012 | 282.0 | 279.5 | 0.0 | 0.0 |
| 18 | 762.00 | -32.00 | 0.00 | 51.188 | 5.873 | 0.012 | 282.1 | 279.5 | 218.9 | 215.3 |
| 19 | 762.00 | -24.00 | 0.00 | 51.181 | 6.232 | 0.012 | 282.2 | 279.4 | 0.0 | 0.0 |
| 20 | 762.00 | -16.00 | 0.00 | 51.205 | 6.430 | 0.012 | 282.2 | 279.5 | 326.0 | 320.2 |
| 21 | 762.00 | -8.00 | 0.00 | 51.134 | 6.452 | 0.012 | 282.1 | 279.5 | 272.7 | 267.8 |
| 22 | 762.00 | 0.00 | 0.00 | 51.155 | 6.372 | 0.012 | 281.9 | 279.5 | 294.0 | 288.8 |
| 23 | 762.00 | 8.00 | 0.00 | 51.160 | 6.404 | 0.011 | 282.0 | 279.5 | 283.5 | 278.4 |
| 24 | 762.00 | 16.00 | 0.00 | 51.175 | 6.277 | 0.012 | 281.9 | 279.4 | 94.8 | 93.1 |
| 25 | 762.00 | 24.00 | 0.00 | 51.172 | 6.119 | 0.012 | 281.7 | 279.4 | 113.4 | 111.5 |
| 26 | 762.00 | 32.00 | 0.00 | 51.171 | 5.860 | 0.011 | 281.6 | 279.3 | 277.7 | 273.1 |
| 27 | 762.00 | 40.00 | 0.00 | 51.175 | 5.348 | 0.011 | 281.3 | 279.3 | 272.4 | 268.3 |
| 28 | 762.00 | 48.00 | 0.00 | 51.142 | 4.993 | 0.012 | 280.9 | 279.2 | 280.2 | 276.3 |
| 29 | 762.00 | 56.00 | 0.00 | 51.098 | 4.288 | 0.012 | 280.9 | 279.2 | 281.2 | 277.8 |
| 30 | 762.00 | 64.00 | 0.00 | 50.973 | 3.705 | 0.012 | 280.8 | 279.2 | 292.4 | 289.3 |
| 31 | 762.00 | 72.00 | 0.00 | 51.013 | 2.988 | 0.012 | 280.8 | 279.2 | 285.6 | 283.2 |
| 32 | 762.00 | 80.00 | 0.00 | 51.011 | 2.166 | 0.012 | 280.9 | 279.2 | 284.1 | 282.3 |
| 33 | 762.00 | 88.00 | 0.00 | 51.087 | 1.949 | 0.012 | 281.1 | 279.2 | 280.2 | 278.6 |
| 34 | 762.00 | 96.00 | 0.00 | 51.203 | 1.164 | 0.013 | 281.1 | 279.3 | 279.8 | 278.9 |
| 35 | 762.00 | 104.00 | 0.00 | 51.379 | 0.903 | 0.013 | 281.0 | 279.3 | 280.8 | 280.1 |
| 36 | 762.00 | 112.00 | 0.00 | 51.496 | 0.558 | 0.014 | 281.1 | 279.3 | 280.4 | 279.9 |
| 37 | 762.00 | 120.00 | 0.00 | 51.405 | 0.392 | 0.015 | 281.1 | 279.3 | 280.4 | 280.1 |
| 38 | 762.00 | 128.00 | 0.00 | 51.408 | 0.189 | 0.014 | 281.1 | 279.3 | 280.5 | 280.3 |
| 39 | 762.00 | 136.00 | 0.00 | 51.407 | 0.148 | 0.013 | 281.2 | 279.4 | 280.8 | 280.7 |
| 40 | 762.00 | 144.00 | 0.00 | 51.335 | 0.072 | 0.015 | 281.1 | 279.3 | 280.6 | 280.5 |
| 41 | 762.00 | 152.00 | 0.00 | 51.240 | 0.014 | 0.017 | 281.3 | 279.3 | 280.7 | 280.7 |
| 42 | 762.00 | 160.00 | 0.00 | 51.202 | 0.016 | 0.015 | 281.5 | 279.3 | 280.8 | 280.8 |

File : TAB285T 27-JAN-89
27-JAN-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8

C1 : X/D = 15
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.578 kPa

Mean gauged plenum pressure : 51.276 kPa
RMS gauged plenum pressure : 0.239 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 762.00 | 0.00 | -120.00 | 51.590 | 0.179 | 0.017 | 280.5 | 279.4 | 280.3 | 280.2 |
| 3 | 762.00 | 0.00 | -116.00 | 51.688 | 0.225 | 0.016 | 280.4 | 279.4 | 280.3 | 280.1 |
| 4 | 762.00 | 0.00 | -112.00 | 51.197 | 0.274 | 0.018 | 280.5 | 279.4 | 280.4 | 280.2 |
| 5 | 762.00 | 0.00 | -108.00 | 51.151 | 0.312 | 0.021 | 280.5 | 279.4 | 280.5 | 280.2 |
| 6 | 762.00 | 0.00 | -104.00 | 51.215 | 0.449 | 0.019 | 280.5 | 279.4 | 280.5 | 280.1 |
| 7 | 762.00 | 0.00 | -100.00 | 51.137 | 0.565 | 0.019 | 280.5 | 279.4 | 280.5 | 280.0 |
| 8 | 762.00 | 0.00 | -96.00 | 51.215 | 0.702 | 0.020 | 280.6 | 279.5 | 280.6 | 280.0 |
| 9 | 762.00 | 0.00 | -92.00 | 51.515 | 0.868 | 0.020 | 280.6 | 279.4 | 280.6 | 279.9 |
| 10 | 762.00 | 0.00 | -88.00 | 51.383 | 0.970 | 0.022 | 280.6 | 279.4 | 280.6 | 279.8 |
| 11 | 762.00 | 0.00 | -84.00 | 51.513 | 1.200 | 0.022 | 280.8 | 279.5 | 280.7 | 279.7 |
| 12 | 762.00 | 0.00 | -80.00 | 51.648 | 1.311 | 0.025 | 280.9 | 279.5 | 280.7 | 279.6 |
| 13 | 762.00 | 0.00 | -76.00 | 51.719 | 1.605 | 0.021 | 280.9 | 279.5 | 280.8 | 279.5 |
| 14 | 762.00 | 0.00 | -72.00 | 51.410 | 1.975 | 0.020 | 281.0 | 279.5 | 280.8 | 279.2 |
| 15 | 762.00 | 0.00 | -68.00 | 51.480 | 2.161 | 0.027 | 281.0 | 279.5 | 280.2 | 278.5 |
| 16 | 762.00 | 0.00 | -64.00 | 51.361 | 2.468 | 0.023 | 281.0 | 279.5 | 280.9 | 278.9 |
| 17 | 762.00 | 0.00 | -60.00 | 51.231 | 2.672 | 0.021 | 281.1 | 279.5 | 280.8 | 278.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 18 | 762.00 | 0.00 | -56.00 | 51.098 | 3.009 | 0.022 | 281.0 | 279.4 | 280.8 | 278.4 |
| 19 | 762.00 | 0.00 | -52.00 | 51.222 | 3.351 | 0.020 | 281.1 | 279.5 | 291.0 | 288.2 |
| 20 | 762.00 | 0.00 | -48.00 | 51.178 | 3.718 | 0.023 | 281.2 | 279.5 | 280.9 | 277.9 |
| 21 | 762.00 | 0.00 | -44.00 | 51.130 | 4.159 | 0.021 | 281.2 | 279.5 | 291.8 | 288.4 |
| 22 | 762.00 | 0.00 | -40.00 | 51.131 | 4.503 | 0.016 | 281.3 | 279.5 | 281.6 | 278.0 |
| 23 | 762.00 | 0.00 | -36.00 | 51.273 | 4.924 | 0.019 | 281.2 | 279.5 | 276.6 | 272.8 |
| 24 | 762.00 | 0.00 | -32.00 | 51.248 | 5.358 | 0.016 | 281.2 | 279.5 | 272.8 | 268.7 |
| 25 | 762.00 | 0.00 | -28.00 | 51.280 | 5.704 | 0.019 | 281.1 | 279.4 | 267.1 | 262.8 |
| 26 | 762.00 | 0.00 | -24.00 | 51.213 | 5.959 | 0.017 | 280.9 | 279.4 | 93.3 | 91.7 |
| 27 | 762.00 | 0.00 | -20.00 | 51.158 | 6.205 | 0.015 | 281.1 | 279.4 | 288.1 | 283.1 |
| 28 | 762.00 | 0.00 | -16.00 | 51.129 | 6.494 | 0.017 | 281.1 | 279.5 | 278.7 | 273.7 |
| 29 | 762.00 | 0.00 | -12.00 | 50.707 | 6.476 | 0.019 | 281.1 | 279.4 | 281.0 | 275.9 |
| 30 | 762.00 | 0.00 | -8.00 | 51.260 | 6.638 | 0.016 | 281.2 | 279.5 | 277.9 | 272.8 |
| 31 | 762.00 | 0.00 | -4.00 | 51.148 | 6.657 | 0.019 | 281.2 | 279.5 | 193.0 | 189.4 |
| 32 | 762.00 | 0.00 | 0.00 | 51.039 | 6.390 | 0.015 | 281.4 | 279.5 | 284.9 | 279.8 |
| 33 | 762.00 | 0.00 | 4.00 | 51.323 | 6.237 | 0.015 | 281.5 | 279.5 | 281.5 | 276.6 |
| 34 | 762.00 | 0.00 | 8.00 | 51.344 | 6.007 | 0.013 | 281.7 | 279.5 | 293.4 | 288.5 |
| 35 | 762.00 | 0.00 | 12.00 | 51.407 | 5.647 | 0.014 | 281.7 | 279.5 | 292.9 | 288.3 |
| 36 | 762.00 | 0.00 | 16.00 | 51.260 | 5.225 | 0.013 | 281.7 | 279.5 | 102.9 | 101.4 |
| 37 | 762.00 | 0.00 | 20.00 | 51.320 | 4.829 | 0.015 | 281.6 | 279.5 | 280.6 | 276.8 |

File : TAB289T 30-JAN-89
30-JAN-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG III(B)

C1 : X/D = 15
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.799 kPa

Mean gauged plenum pressure : 50.995 kPa
RMS gauged plenum pressure : 0.117 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 762.00 | -160.00 | 0.00 | 51.043 | 0.037 | 0.013 | 284.9 | 280.7 | 284.6 | 284.6 |
| 3 | 762.00 | -152.00 | 0.00 | 50.830 | 0.029 | 0.013 | 284.8 | 280.7 | 284.7 | 284.7 |
| 4 | 762.00 | -144.00 | 0.00 | 50.865 | 0.038 | 0.013 | 284.7 | 280.7 | 284.7 | 284.7 |
| 5 | 762.00 | -136.00 | 0.00 | 50.908 | 0.096 | 0.013 | 284.8 | 280.7 | 284.8 | 284.7 |
| 6 | 762.00 | -128.00 | 0.00 | 51.092 | 0.264 | 0.014 | 284.7 | 280.7 | 284.8 | 284.6 |
| 7 | 762.00 | -120.00 | 0.00 | 51.091 | 0.350 | 0.014 | 284.8 | 280.7 | 284.7 | 284.4 |
| 8 | 762.00 | -112.00 | 0.00 | 51.153 | 0.584 | 0.015 | 284.7 | 280.7 | 284.7 | 284.2 |
| 9 | 762.00 | -104.00 | 0.00 | 51.076 | 0.999 | 0.019 | 284.7 | 280.7 | 284.7 | 283.9 |
| 10 | 762.00 | -96.00 | 0.00 | 50.685 | 1.334 | 0.018 | 284.8 | 280.7 | 284.6 | 283.5 |
| 11 | 762.00 | -88.00 | 0.00 | 50.904 | 1.574 | 0.015 | 284.8 | 280.7 | 284.6 | 283.3 |
| 12 | 762.00 | -80.00 | 0.00 | 51.124 | 1.932 | 0.017 | 284.8 | 280.7 | 286.5 | 284.9 |
| 13 | 762.00 | -72.00 | 0.00 | 51.020 | 2.869 | 0.015 | 284.7 | 280.7 | 284.4 | 282.1 |
| 14 | 762.00 | -64.00 | 0.00 | 51.039 | 3.270 | 0.016 | 284.7 | 280.7 | 279.9 | 277.3 |
| 15 | 762.00 | -56.00 | 0.00 | 50.894 | 3.781 | 0.014 | 284.8 | 280.8 | 277.3 | 274.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 762.00 | -48.00 | 0.00 | 51.168 | 4.646 | 0.015 | 284.8 | 280.7 | 285.6 | 281.8 |
| 17 | 762.00 | -40.00 | 0.00 | 51.053 | 5.243 | 0.015 | 284.8 | 280.7 | 278.1 | 274.0 |
| 18 | 762.00 | -32.00 | 0.00 | 50.859 | 5.660 | 0.016 | 284.8 | 280.7 | 284.2 | 279.7 |
| 19 | 762.00 | -24.00 | 0.00 | 50.930 | 6.015 | 0.018 | 284.8 | 280.7 | 286.4 | 281.5 |
| 20 | 762.00 | -16.00 | 0.00 | 50.949 | 6.082 | 0.019 | 284.8 | 280.7 | 286.5 | 281.6 |
| 21 | 762.00 | -8.00 | 0.00 | 50.991 | 6.377 | 0.019 | 284.8 | 280.7 | 283.1 | 278.0 |
| 22 | 762.00 | 0.00 | 0.00 | 51.140 | 6.545 | 0.021 | 284.8 | 280.7 | 281.2 | 276.0 |
| 23 | 762.00 | 8.00 | 0.00 | 51.067 | 6.603 | 0.020 | 284.9 | 280.7 | 280.9 | 275.7 |
| 24 | 762.00 | 16.00 | 0.00 | 51.186 | 6.398 | 0.018 | 284.9 | 280.7 | 278.4 | 273.4 |
| 25 | 762.00 | 24.00 | 0.00 | 51.050 | 6.297 | 0.015 | 284.9 | 280.7 | 280.5 | 275.5 |
| 26 | 762.00 | 32.00 | 0.00 | 50.964 | 5.923 | 0.018 | 284.9 | 280.6 | 280.8 | 276.1 |
| 27 | 762.00 | 40.00 | 0.00 | 50.836 | 5.522 | 0.018 | 285.0 | 280.6 | 277.2 | 272.9 |
| 28 | 762.00 | 48.00 | 0.00 | 50.830 | 4.920 | 0.019 | 285.0 | 280.6 | 289.4 | 285.4 |
| 29 | 762.00 | 56.00 | 0.00 | 50.931 | 4.157 | 0.016 | 285.0 | 280.6 | 273.9 | 270.7 |
| 30 | 762.00 | 64.00 | 0.00 | 50.962 | 3.418 | 0.020 | 285.0 | 280.6 | 276.0 | 273.3 |
| 31 | 762.00 | 72.00 | 0.00 | 51.006 | 2.612 | 0.014 | 285.0 | 280.6 | 284.2 | 282.1 |
| 32 | 762.00 | 80.00 | 0.00 | 51.095 | 2.169 | 0.015 | 285.0 | 280.6 | 284.3 | 282.5 |
| 33 | 762.00 | 88.00 | 0.00 | 51.001 | 1.412 | 0.015 | 285.0 | 280.7 | 284.4 | 283.2 |
| 34 | 762.00 | 96.00 | 0.00 | 51.006 | 1.083 | 0.018 | 285.0 | 280.6 | 282.8 | 281.9 |
| 35 | 762.00 | 104.00 | 0.00 | 51.016 | 0.872 | 0.015 | 284.9 | 280.6 | 284.4 | 283.7 |
| 36 | 762.00 | 112.00 | 0.00 | 50.994 | 0.556 | 0.017 | 285.0 | 280.6 | 284.6 | 284.1 |
| 37 | 762.00 | 120.00 | 0.00 | 50.990 | 0.338 | 0.015 | 285.0 | 280.6 | 284.6 | 284.3 |
| 38 | 762.00 | 128.00 | 0.00 | 50.974 | 0.172 | 0.015 | 285.0 | 280.6 | 284.7 | 284.6 |
| 39 | 762.00 | 136.00 | 0.00 | 50.981 | 0.085 | 0.014 | 285.0 | 280.6 | 284.7 | 284.6 |
| 40 | 762.00 | 144.00 | 0.00 | 50.973 | 0.032 | 0.016 | 285.1 | 280.6 | 284.8 | 284.8 |
| 41 | 762.00 | 152.00 | 0.00 | 50.976 | 0.013 | 0.014 | 285.1 | 280.6 | 284.8 | 284.8 |
| 42 | 762.00 | 160.00 | 0.00 | 50.999 | 0.013 | 0.013 | 285.1 | 280.6 | 284.9 | 284.9 |

File : TAB296T 1-FEB-89
1-FEB-89

Reduced experimental data file

*HORIZONTAL PROFILE*

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG III(B)

C1 : X/D = 13
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.799 kPa

Mean gauged plenum pressure : 51.051 kPa
RMS gauged plenum pressure : 0.196 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | -160.00 | 0.00 | 50.857 | 0.012 | 0.011 | 292.1 | 283.1 | 0.0 | 0.0 |
| 3 | 660.40 | -152.00 | 0.00 | 50.893 | 0.010 | 0.011 | 292.2 | 283.0 | 0.0 | 0.0 |
| 4 | 660.40 | -144.00 | 0.00 | 51.208 | 0.010 | 0.012 | 292.0 | 282.8 | 0.0 | 0.0 |
| 5 | 660.40 | -136.00 | 0.00 | 51.357 | 0.013 | 0.012 | 291.9 | 282.6 | 0.0 | 0.0 |
| 6 | 660.40 | -128.00 | 0.00 | 51.222 | 0.041 | 0.012 | 291.8 | 282.6 | 0.0 | 0.0 |
| 7 | 660.40 | -120.00 | 0.00 | 51.005 | 0.197 | 0.011 | 291.8 | 282.5 | 0.0 | 0.0 |
| 8 | 660.40 | -112.00 | 0.00 | 50.682 | 0.396 | 0.011 | 291.8 | 282.4 | 0.0 | 0.0 |
| 9 | 660.40 | -104.00 | 0.00 | 50.878 | 0.718 | 0.012 | 291.8 | 282.3 | 0.0 | 0.0 |
| 10 | 660.40 | -96.00 | 0.00 | 50.918 | 1.053 | 0.011 | 292.0 | 282.3 | 0.0 | 0.0 |
| 11 | 660.40 | -88.00 | 0.00 | 50.999 | 1.548 | 0.011 | 291.9 | 282.2 | 0.0 | 0.0 |
| 12 | 660.40 | -80.00 | 0.00 | 51.269 | 2.501 | 0.011 | 292.0 | 282.2 | 0.0 | 0.0 |
| 13 | 660.40 | -72.00 | 0.00 | 51.096 | 3.453 | 0.011 | 291.8 | 282.2 | 0.0 | 0.0 |
| 14 | 660.40 | -64.00 | 0.00 | 51.221 | 4.372 | 0.011 | 291.8 | 282.1 | 0.0 | 0.0 |
| 15 | 660.40 | -56.00 | 0.00 | 50.938 | 5.258 | 0.011 | 291.7 | 282.1 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | -48.00 | 0.00 | 50.786 | 6.258 | 0.011 | 291.7 | 282.1 | 0.0 | 0.0 |
| 17 | 660.40 | -40.00 | 0.00 | 50.775 | 6.989 | 0.011 | 291.7 | 282.0 | 0.0 | 0.0 |
| 18 | 660.40 | -32.00 | 0.00 | 51.007 | 7.703 | 0.011 | 291.6 | 282.0 | 0.0 | 0.0 |
| 19 | 660.40 | -24.00 | 0.00 | 51.040 | 7.882 | 0.011 | 291.6 | 282.0 | 0.0 | 0.0 |
| 20 | 660.40 | -16.00 | 0.00 | 51.202 | 7.972 | 0.011 | 291.7 | 282.0 | 0.0 | 0.0 |
| 21 | 660.40 | -8.00 | 0.00 | 51.354 | 7.858 | 0.011 | 291.8 | 282.0 | 316.0 | 309.1 |
| 22 | 660.40 | 0.00 | 0.00 | 51.357 | 8.027 | 0.011 | 291.8 | 282.1 | 193.3 | 189.0 |
| 23 | 660.40 | 8.00 | 0.00 | 51.135 | 7.976 | 0.012 | 291.9 | 282.1 | 294.0 | 287.5 |
| 24 | 660.40 | 16.00 | 0.00 | 51.078 | 7.924 | 0.011 | 292.1 | 282.1 | 288.9 | 282.5 |
| 25 | 660.40 | 24.00 | 0.00 | 50.859 | 7.874 | 0.012 | 292.2 | 282.1 | 299.0 | 292.5 |
| 26 | 660.40 | 32.00 | 0.00 | 50.967 | 7.648 | 0.012 | 292.6 | 282.0 | 320.2 | 313.4 |
| 27 | 660.40 | 40.00 | 0.00 | 50.927 | 6.959 | 0.012 | 292.9 | 282.0 | 297.2 | 291.4 |
| 28 | 660.40 | 48.00 | 0.00 | 50.997 | 6.164 | 0.012 | 292.9 | 282.0 | 294.3 | 289.2 |
| 29 | 660.40 | 56.00 | 0.00 | 51.167 | 5.191 | 0.012 | 293.1 | 282.0 | 192.8 | 190.0 |
| 30 | 660.40 | 64.00 | 0.00 | 51.262 | 4.036 | 0.012 | 292.7 | 282.0 | 0.0 | 0.0 |
| 31 | 660.40 | 72.00 | 0.00 | 51.226 | 3.302 | 0.012 | 292.5 | 282.0 | 0.0 | 0.0 |
| 32 | 660.40 | 80.00 | 0.00 | 51.222 | 2.452 | 0.012 | 292.3 | 282.0 | 0.0 | 0.0 |
| 33 | 660.40 | 88.00 | 0.00 | 50.960 | 1.585 | 0.012 | 292.2 | 282.0 | 0.0 | 0.0 |
| 34 | 660.40 | 96.00 | 0.00 | 50.945 | 1.184 | 0.013 | 292.2 | 282.0 | 0.0 | 0.0 |
| 35 | 660.40 | 104.00 | 0.00 | 50.842 | 0.653 | 0.012 | 292.1 | 282.0 | 0.0 | 0.0 |
| 36 | 660.40 | 112.00 | 0.00 | 51.059 | 0.381 | 0.014 | 292.1 | 282.0 | 0.0 | 0.0 |
| 37 | 660.40 | 120.00 | 0.00 | 51.017 | 0.180 | 0.013 | 292.2 | 282.0 | 0.0 | 0.0 |
| 38 | 660.40 | 128.00 | 0.00 | 51.044 | 0.096 | 0.012 | 292.3 | 282.0 | 0.0 | 0.0 |
| 39 | 660.40 | 136.00 | 0.00 | 51.216 | 0.013 | 0.014 | 292.4 | 282.0 | 0.0 | 0.0 |
| 40 | 660.40 | 144.00 | 0.00 | 51.303 | 0.013 | 0.013 | 292.6 | 282.1 | 0.0 | 0.0 |
| 41 | 660.40 | 152.00 | 0.00 | 51.186 | 0.011 | 0.014 | 292.9 | 282.1 | 0.0 | 0.0 |
| 42 | 660.40 | 160.00 | 0.00 | 51.094 | 0.011 | 0.021 | 292.9 | 282.2 | 0.0 | 0.0 |

File : TAB297T

1-FEB-89
2-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG III(B)

C1 : X/D = 13
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.765 kPa

Mean gauged plenum pressure : 51.015 kPa
RMS gauged plenum pressure : 0.213 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | 0.00 | -120.00 | 50.908 | 0.018 | 0.013 | 293.8 | 282.4 | 0.0 | 0.0 |
| 3 | 660.40 | 0.00 | -116.00 | 50.959 | 0.025 | 0.016 | 293.6 | 282.3 | 0.0 | 0.0 |
| 4 | 660.40 | 0.00 | -112.00 | 51.001 | 0.038 | 0.016 | 293.4 | 282.2 | 0.0 | 0.0 |
| 5 | 660.40 | 0.00 | -108.00 | 50.947 | 0.090 | 0.017 | 293.2 | 282.2 | 0.0 | 0.0 |
| 6 | 660.40 | 0.00 | -104.00 | 50.261 | 0.121 | 0.016 | 293.1 | 282.0 | 0.0 | 0.0 |
| 7 | 660.40 | 0.00 | -100.00 | 51.332 | 0.239 | 0.018 | 293.2 | 282.2 | 0.0 | 0.0 |
| 8 | 660.40 | 0.00 | -96.00 | 51.035 | 0.290 | 0.019 | 293.2 | 282.3 | 0.0 | 0.0 |
| 9 | 660.40 | 0.00 | -92.00 | 51.036 | 0.410 | 0.017 | 293.5 | 282.3 | 0.0 | 0.0 |
| 10 | 660.40 | 0.00 | -88.00 | 50.847 | 0.611 | 0.015 | 293.8 | 282.3 | 0.0 | 0.0 |
| 11 | 660.40 | 0.00 | -84.00 | 50.950 | 0.786 | 0.016 | 293.8 | 282.3 | 0.0 | 0.0 |
| 12 | 660.40 | 0.00 | -80.00 | 50.867 | 0.973 | 0.023 | 293.8 | 282.3 | 0.0 | 0.0 |
| 13 | 660.40 | 0.00 | -76.00 | 51.299 | 1.175 | 0.022 | 293.8 | 282.4 | 0.0 | 0.0 |
| 14 | 660.40 | 0.00 | -72.00 | 51.212 | 1.511 | 0.022 | 293.9 | 282.4 | 0.0 | 0.0 |
| 15 | 660.40 | 0.00 | -68.00 | 50.962 | 1.790 | 0.024 | 293.9 | 282.4 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | 0.00 | -64.00 | 50.771 | 2.060 | 0.022 | 293.9 | 282.2 | 0.0 | 0.0 |
| 17 | 660.40 | 0.00 | -60.00 | 50.869 | 2.571 | 0.021 | 293.9 | 282.2 | 0.0 | 0.0 |
| 18 | 660.40 | 0.00 | -56.00 | 50.954 | 2.975 | 0.024 | 293.7 | 282.1 | 0.0 | 0.0 |
| 19 | 660.40 | 0.00 | -52.00 | 51.177 | 3.472 | 0.029 | 293.5 | 282.1 | 0.0 | 0.0 |
| 20 | 660.40 | 0.00 | -48.00 | 51.128 | 3.940 | 0.027 | 293.3 | 282.1 | 0.0 | 0.0 |
| 21 | 660.40 | 0.00 | -44.00 | 51.277 | 4.525 | 0.020 | 293.3 | 282.1 | 0.0 | 0.0 |
| 22 | 660.40 | 0.00 | -40.00 | 51.097 | 4.966 | 0.023 | 293.6 | 282.1 | 0.0 | 0.0 |
| 23 | 660.40 | 0.00 | -36.00 | 50.969 | 5.574 | 0.017 | 293.9 | 282.2 | 0.0 | 0.0 |
| 24 | 660.40 | 0.00 | -32.00 | 50.962 | 6.298 | 0.017 | 294.2 | 282.1 | 0.0 | 0.0 |
| 25 | 660.40 | 0.00 | -28.00 | 50.973 | 6.745 | 0.020 | 294.4 | 282.1 | 98.2 | 96.3 |
| 26 | 660.40 | 0.00 | -24.00 | 51.027 | 7.347 | 0.017 | 294.1 | 282.1 | 0.0 | 0.0 |
| 27 | 660.40 | 0.00 | -20.00 | 50.997 | 7.822 | 0.020 | 294.0 | 282.1 | 0.0 | 0.0 |
| 28 | 660.40 | 0.00 | -16.00 | 51.144 | 7.942 | 0.025 | 293.8 | 282.1 | 0.0 | 0.0 |
| 29 | 660.40 | 0.00 | -12.00 | 51.048 | 8.223 | 0.021 | 293.7 | 282.0 | 92.5 | 90.4 |
| 30 | 660.40 | 0.00 | -8.00 | 51.200 | 8.296 | 0.021 | 293.5 | 282.1 | 286.3 | 279.7 |
| 31 | 660.40 | 0.00 | -4.00 | 51.125 | 8.218 | 0.017 | 293.3 | 282.0 | 290.7 | 284.1 |
| 32 | 660.40 | 0.00 | 0.00 | 51.144 | 8.075 | 0.015 | 293.5 | 282.1 | 288.9 | 282.4 |
| 33 | 660.40 | 0.00 | 4.00 | 51.100 | 7.638 | 0.018 | 293.7 | 282.1 | 285.0 | 278.9 |
| 34 | 660.40 | 0.00 | 8.00 | 50.829 | 7.126 | 0.016 | 293.7 | 282.1 | 281.4 | 275.8 |
| 35 | 660.40 | 0.00 | 12.00 | 51.070 | 6.680 | 0.018 | 293.8 | 282.1 | 278.6 | 273.4 |
| 36 | 660.40 | 0.00 | 16.00 | 51.058 | 6.076 | 0.016 | 293.8 | 282.1 | 302.2 | 297.0 |
| 37 | 660.40 | 0.00 | 20.00 | 51.066 | 5.447 | 0.016 | 293.9 | 282.1 | 299.2 | 294.6 |

File : TAB292T 31-JAN-89
31-JAN-89

Reduced experimental data file

DIAGONAL PROFILE'

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG III(B)

C1 : X/D = 13
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.070 kPa

Mean gauged plenum pressure : 51.053 kPa
RMS gauged plenum pressure : 0.157 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | -160.00 | 0.00 | 50.802 | 0.013 | 0.012 | 280.7 | 280.2 | 280.1 | 280.1 |
| 3 | 660.40 | -152.00 | 0.00 | 50.870 | 0.012 | 0.012 | 280.6 | 280.1 | 280.1 | 280.1 |
| 4 | 660.40 | -144.00 | 0.00 | 50.902 | 0.012 | 0.012 | 280.7 | 280.1 | 280.2 | 280.2 |
| 5 | 660.40 | -136.00 | 0.00 | 50.911 | 0.013 | 0.012 | 280.6 | 280.1 | 280.2 | 280.2 |
| 6 | 660.40 | -128.00 | 0.00 | 50.925 | 0.070 | 0.013 | 280.6 | 280.1 | 280.2 | 280.1 |
| 7 | 660.40 | -120.00 | 0.00 | 50.879 | 0.151 | 0.012 | 280.7 | 280.1 | 280.3 | 280.2 |
| 8 | 660.40 | -112.00 | 0.00 | 51.152 | 0.352 | 0.015 | 280.7 | 280.1 | 280.3 | 280.0 |
| 9 | 660.40 | -104.00 | 0.00 | 51.202 | 0.564 | 0.013 | 280.7 | 280.1 | 280.3 | 279.8 |
| 10 | 660.40 | -96.00 | 0.00 | 51.193 | 0.919 | 0.013 | 280.7 | 280.1 | 280.3 | 279.6 |
| 11 | 660.40 | -88.00 | 0.00 | 51.190 | 1.395 | 0.013 | 280.7 | 280.1 | 280.2 | 279.1 |
| 12 | 660.40 | -80.00 | 0.00 | 51.181 | 1.998 | 0.013 | 280.8 | 280.1 | 290.1 | 288.4 |
| 13 | 660.40 | -72.00 | 0.00 | 51.141 | 2.837 | 0.015 | 280.8 | 280.1 | 286.8 | 284.5 |
| 14 | 660.40 | -64.00 | 0.00 | 51.091 | 3.729 | 0.014 | 281.0 | 280.1 | 276.9 | 274.0 |
| 15 | 660.40 | -56.00 | 0.00 | 51.055 | 4.753 | 0.014 | 281.0 | 280.1 | 275.3 | 271.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | -48.00 | 0.00 | 51.005 | 5.655 | 0.013 | 281.1 | 280.1 | 277.6 | 273.2 |
| 17 | 660.40 | -40.00 | 0.00 | 50.741 | 6.339 | 0.015 | 281.1 | 280.1 | 307.0 | 301.6 |
| 18 | 660.40 | -32.00 | 0.00 | 51.427 | 7.001 | 0.015 | 281.1 | 280.1 | 0.0 | 0.0 |
| 19 | 660.40 | -24.00 | 0.00 | 50.960 | 7.452 | 0.015 | 281.2 | 280.1 | 0.0 | 0.0 |
| 20 | 660.40 | -16.00 | 0.00 | 51.172 | 7.665 | 0.013 | 281.2 | 280.1 | 295.2 | 288.9 |
| 21 | 660.40 | -8.00 | 0.00 | 51.186 | 7.779 | 0.017 | 281.4 | 280.1 | 92.4 | 90.4 |
| 22 | 660.40 | 0.00 | 0.00 | 51.183 | 7.913 | 0.016 | 281.5 | 280.1 | 0.0 | 0.0 |
| 23 | 660.40 | 8.00 | 0.00 | 51.147 | 7.986 | 0.018 | 281.5 | 280.1 | 190.0 | 185.8 |
| 24 | 660.40 | 16.00 | 0.00 | 50.833 | 8.161 | 0.021 | 281.5 | 280.1 | 0.0 | 0.0 |
| 25 | 660.40 | 24.00 | 0.00 | 50.915 | 8.046 | 0.021 | 281.5 | 280.1 | 281.0 | 274.7 |
| 26 | 660.40 | 32.00 | 0.00 | 50.745 | 7.771 | 0.018 | 281.4 | 280.1 | 280.6 | 274.5 |
| 27 | 660.40 | 40.00 | 0.00 | 51.163 | 7.195 | 0.019 | 281.4 | 280.1 | 280.3 | 274.7 |
| 28 | 660.40 | 48.00 | 0.00 | 51.007 | 6.070 | 0.018 | 281.5 | 280.1 | 280.4 | 275.6 |
| 29 | 660.40 | 56.00 | 0.00 | 51.229 | 5.378 | 0.018 | 281.6 | 280.1 | 276.9 | 272.7 |
| 30 | 660.40 | 64.00 | 0.00 | 51.148 | 3.821 | 0.019 | 281.6 | 280.1 | 84.9 | 84.0 |
| 31 | 660.40 | 72.00 | 0.00 | 51.080 | 3.005 | 0.020 | 281.7 | 280.1 | 297.1 | 294.5 |
| 32 | 660.40 | 80.00 | 0.00 | 51.001 | 2.237 | 0.023 | 281.8 | 280.0 | 280.9 | 279.1 |
| 33 | 660.40 | 88.00 | 0.00 | 51.032 | 1.520 | 0.018 | 281.8 | 280.1 | 273.8 | 272.6 |
| 34 | 660.40 | 96.00 | 0.00 | 51.029 | 0.950 | 0.022 | 281.9 | 280.1 | 281.0 | 280.2 |
| 35 | 660.40 | 104.00 | 0.00 | 51.070 | 0.683 | 0.020 | 282.0 | 280.1 | 281.0 | 280.4 |
| 36 | 660.40 | 112.00 | 0.00 | 51.090 | 0.506 | 0.021 | 282.0 | 280.1 | 281.1 | 280.7 |
| 37 | 660.40 | 120.00 | 0.00 | 51.132 | 0.227 | 0.022 | 282.1 | 280.1 | 281.2 | 281.0 |
| 38 | 660.40 | 128.00 | 0.00 | 51.131 | 0.133 | 0.023 | 282.2 | 280.1 | 281.3 | 281.2 |
| 39 | 660.40 | 136.00 | 0.00 | 51.123 | 0.024 | 0.021 | 282.1 | 280.1 | 281.3 | 281.3 |
| 40 | 660.40 | 144.00 | 0.00 | 51.108 | 0.014 | 0.021 | 282.1 | 280.1 | 281.3 | 281.3 |
| 41 | 660.40 | 152.00 | 0.00 | 51.104 | 0.013 | 0.020 | 282.3 | 280.1 | 281.4 | 281.4 |
| 42 | 660.40 | 160.00 | 0.00 | 51.087 | 0.013 | 0.025 | 282.3 | 280.1 | 281.4 | 281.4 |

File : TAB301T 3-FEB-89
3-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG III(B)

C1 : X/D = 11
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.307 kPa

Mean gauged plenum pressure : 51.219 kPa
RMS gauged plenum pressure : 0.566 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 558.80 | -160.00 | 0.00 | 51.171 | 0.139 | 0.073 | 287.5 | 282.1 | 287.3 | 287.2 |
| 3 | 558.80 | -152.00 | 0.00 | 50.819 | 0.122 | 0.072 | 287.5 | 282.1 | 287.4 | 287.3 |
| 4 | 558.80 | -144.00 | 0.00 | 50.546 | 0.118 | 0.071 | 287.6 | 282.2 | 287.4 | 287.3 |
| 5 | 558.80 | -136.00 | 0.00 | 50.392 | 0.097 | 0.068 | 287.6 | 282.2 | 287.5 | 287.4 |
| 6 | 558.80 | -128.00 | 0.00 | 51.328 | 0.136 | 0.060 | 287.7 | 282.1 | 287.4 | 287.3 |
| 7 | 558.80 | -120.00 | 0.00 | 51.391 | 0.223 | 0.066 | 287.7 | 282.2 | 287.4 | 287.2 |
| 8 | 558.80 | -112.00 | 0.00 | 51.459 | 0.350 | 0.072 | 287.6 | 282.2 | 287.4 | 287.1 |
| 9 | 558.80 | -104.00 | 0.00 | 51.398 | 0.636 | 0.077 | 287.6 | 282.2 | 287.5 | 287.0 |
| 10 | 558.80 | -96.00 | 0.00 | 51.357 | 1.224 | 0.072 | 287.6 | 282.2 | 287.4 | 286.4 |
| 11 | 558.80 | -88.00 | 0.00 | 51.513 | 1.687 | 0.074 | 287.6 | 282.2 | 287.5 | 286.1 |
| 12 | 558.80 | -80.00 | 0.00 | 51.470 | 2.744 | 0.074 | 287.6 | 282.2 | 287.4 | 285.1 |
| 13 | 558.80 | -72.00 | 0.00 | 51.478 | 3.821 | 0.074 | 287.6 | 282.2 | 287.4 | 284.3 |
| 14 | 558.80 | -64.00 | 0.00 | 51.422 | 5.134 | 0.071 | 287.6 | 282.2 | 287.4 | 283.2 |
| 15 | 558.80 | -56.00 | 0.00 | 51.320 | 6.603 | 0.070 | 287.6 | 282.2 | 287.4 | 282.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 558.80 | -48.00 | 0.00 | 51.215 | 7.976 | 0.073 | 287.7 | 282.2 | 287.4 | 281.1 |
| 17 | 558.80 | -40.00 | 0.00 | 51.305 | 9.310 | 0.074 | 287.6 | 282.2 | 287.4 | 280.1 |
| 18 | 558.80 | -32.00 | 0.00 | 51.209 | 10.162 | 0.069 | 287.6 | 282.1 | 287.3 | 279.3 |
| 19 | 558.80 | -24.00 | 0.00 | 51.237 | 10.409 | 0.069 | 287.7 | 282.1 | 287.4 | 279.2 |
| 20 | 558.80 | -16.00 | 0.00 | 51.242 | 10.256 | 0.067 | 287.7 | 282.1 | 287.4 | 279.4 |
| 21 | 558.80 | -8.00 | 0.00 | 51.197 | 9.901 | 0.068 | 287.7 | 282.1 | 287.4 | 279.6 |
| 22 | 558.80 | 0.00 | 0.00 | 51.204 | 9.683 | 0.068 | 287.8 | 282.1 | 287.3 | 279.7 |
| 23 | 558.80 | 8.00 | 0.00 | 51.399 | 9.886 | 0.067 | 287.8 | 282.1 | 287.3 | 279.5 |
| 24 | 558.80 | 16.00 | 0.00 | 51.382 | 10.197 | 0.064 | 287.9 | 282.1 | 287.4 | 279.4 |
| 25 | 558.80 | 24.00 | 0.00 | 51.464 | 10.437 | 0.062 | 288.0 | 282.1 | 287.5 | 279.3 |
| 26 | 558.80 | 32.00 | 0.00 | 51.442 | 10.001 | 0.064 | 288.0 | 282.1 | 287.6 | 279.7 |
| 27 | 558.80 | 40.00 | 0.00 | 51.422 | 9.145 | 0.059 | 288.1 | 282.1 | 287.6 | 280.4 |
| 28 | 558.80 | 48.00 | 0.00 | 51.396 | 7.756 | 0.056 | 288.1 | 282.1 | 287.6 | 281.4 |
| 29 | 558.80 | 56.00 | 0.00 | 51.366 | 6.146 | 0.056 | 288.1 | 282.1 | 287.6 | 282.7 |
| 30 | 558.80 | 64.00 | 0.00 | 51.297 | 4.341 | 0.054 | 288.2 | 282.1 | 287.7 | 284.2 |
| 31 | 558.80 | 72.00 | 0.00 | 51.261 | 3.032 | 0.056 | 288.2 | 282.1 | 287.7 | 285.2 |
| 32 | 558.80 | 80.00 | 0.00 | 51.389 | 2.076 | 0.053 | 288.2 | 282.1 | 287.8 | 286.1 |
| 33 | 558.80 | 88.00 | 0.00 | 51.342 | 1.375 | 0.048 | 288.7 | 282.1 | 287.9 | 286.8 |
| 34 | 558.80 | 96.00 | 0.00 | 51.356 | 0.763 | 0.042 | 289.0 | 282.1 | 287.9 | 287.3 |
| 35 | 558.80 | 104.00 | 0.00 | 51.339 | 0.529 | 0.038 | 289.3 | 282.1 | 288.0 | 287.6 |
| 36 | 558.80 | 112.00 | 0.00 | 51.331 | 0.259 | 0.038 | 289.4 | 282.1 | 288.0 | 287.8 |
| 37 | 558.80 | 120.00 | 0.00 | 51.334 | 0.077 | 0.033 | 289.6 | 282.1 | 288.0 | 287.9 |
| 38 | 558.80 | 128.00 | 0.00 | 51.451 | 0.046 | 0.029 | 289.3 | 282.1 | 288.1 | 288.1 |
| 39 | 558.80 | 136.00 | 0.00 | 51.365 | 0.022 | 0.032 | 288.8 | 282.1 | 288.1 | 288.1 |
| 40 | 558.80 | 144.00 | 0.00 | 51.327 | 0.013 | 0.031 | 288.6 | 282.1 | 288.1 | 288.1 |
| 41 | 558.80 | 152.00 | 0.00 | 51.343 | 0.013 | 0.026 | 288.5 | 282.1 | 288.1 | 288.1 |
| 42 | 558.80 | 160.00 | 0.00 | 48.222 | 0.013 | 0.019 | 288.5 | 281.9 | 288.1 | 288.1 |

File : TAB300T 2-FEB-89
2-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG III(B)

C1 : X/D = 11
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.239 kPa

Mean gauged plenum pressure : 51.354 kPa
RMS gauged plenum pressure : 0.538 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 558.80 | 0.00 | -120.00 | 51.487 | 0.013 | 0.013 | 293.4 | 282.3 | 292.4 | 292.4 |
| 3 | 558.80 | 0.00 | -116.00 | 51.481 | 0.013 | 0.014 | 293.6 | 282.3 | 292.4 | 292.4 |
| 4 | 558.80 | 0.00 | -112.00 | 51.488 | 0.013 | 0.012 | 293.6 | 282.2 | 292.4 | 292.4 |
| 5 | 558.80 | 0.00 | -108.00 | 51.491 | 0.017 | 0.014 | 293.6 | 282.2 | 292.4 | 292.4 |
| 6 | 558.80 | 0.00 | -104.00 | 51.478 | 0.014 | 0.012 | 293.6 | 282.2 | 292.4 | 292.4 |
| 7 | 558.80 | 0.00 | -100.00 | 51.477 | 0.065 | 0.013 | 293.3 | 282.1 | 292.4 | 292.3 |
| 8 | 558.80 | 0.00 | -96.00 | 51.486 | 0.087 | 0.013 | 292.9 | 282.2 | 292.4 | 292.3 |
| 9 | 558.80 | 0.00 | -92.00 | 51.496 | 0.173 | 0.014 | 292.8 | 282.2 | 292.4 | 292.3 |
| 10 | 558.80 | 0.00 | -88.00 | 51.505 | 0.286 | 0.014 | 292.7 | 282.2 | 292.4 | 292.2 |
| 11 | 558.80 | 0.00 | -84.00 | 51.496 | 0.362 | 0.012 | 292.6 | 282.1 | 292.4 | 292.1 |
| 12 | 558.80 | 0.00 | -80.00 | 51.503 | 0.614 | 0.013 | 292.6 | 282.1 | 292.4 | 291.9 |
| 13 | 558.80 | 0.00 | -76.00 | 51.505 | 0.785 | 0.013 | 292.6 | 282.2 | 292.4 | 291.7 |
| 14 | 558.80 | 0.00 | -72.00 | 51.519 | 1.085 | 0.015 | 292.5 | 282.2 | 292.4 | 291.5 |
| 15 | 558.80 | 0.00 | -68.00 | 51.530 | 1.446 | 0.014 | 292.6 | 282.2 | 292.4 | 291.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 558.80 | 0.00 | -64.00 | 51.515 | 1.882 | 0.013 | 292.6 | 282.2 | 292.4 | 290.8 |
| 17 | 558.80 | 0.00 | -60.00 | 51.543 | 2.361 | 0.013 | 292.6 | 282.2 | 292.4 | 290.4 |
| 18 | 558.80 | 0.00 | -56.00 | 51.544 | 2.829 | 0.013 | 292.6 | 282.2 | 292.4 | 290.0 |
| 19 | 558.80 | 0.00 | -52.00 | 51.539 | 3.508 | 0.015 | 292.6 | 282.2 | 292.4 | 289.5 |
| 20 | 558.80 | 0.00 | -48.00 | 51.550 | 4.099 | 0.016 | 292.6 | 282.3 | 292.4 | 289.0 |
| 21 | 558.80 | 0.00 | -44.00 | 51.536 | 4.913 | 0.015 | 292.7 | 282.3 | 292.5 | 288.4 |
| 22 | 558.80 | 0.00 | -40.00 | 51.548 | 5.707 | 0.014 | 293.1 | 282.2 | 292.5 | 287.8 |
| 23 | 558.80 | 0.00 | -36.00 | 51.573 | 6.396 | 0.017 | 293.5 | 282.2 | 292.5 | 287.3 |
| 24 | 558.80 | 0.00 | -32.00 | 51.555 | 7.219 | 0.016 | 293.4 | 282.2 | 292.6 | 286.7 |
| 25 | 558.80 | 0.00 | -28.00 | 51.567 | 8.040 | 0.014 | 293.7 | 282.2 | 292.6 | 286.1 |
| 26 | 558.80 | 0.00 | -24.00 | 51.562 | 8.866 | 0.019 | 293.3 | 282.2 | 292.6 | 285.5 |
| 27 | 558.80 | 0.00 | -20.00 | 51.571 | 9.545 | 0.018 | 293.5 | 282.2 | 292.5 | 284.8 |
| 28 | 558.80 | 0.00 | -16.00 | 48.813 | 9.595 | 0.017 | 293.6 | 282.1 | 292.6 | 284.9 |
| 29 | 558.80 | 0.00 | -12.00 | 51.116 | 10.222 | 0.015 | 293.1 | 282.2 | 292.5 | 284.3 |
| 30 | 558.80 | 0.00 | -8.00 | 51.590 | 10.412 | 0.016 | 292.9 | 282.2 | 292.5 | 284.2 |
| 31 | 558.80 | 0.00 | -4.00 | 51.691 | 10.222 | 0.014 | 292.8 | 282.2 | 292.4 | 284.2 |
| 32 | 558.80 | 0.00 | 0.00 | 51.799 | 9.815 | 0.013 | 292.8 | 282.2 | 292.3 | 284.4 |
| 33 | 558.80 | 0.00 | 4.00 | 51.737 | 9.138 | 0.013 | 292.8 | 282.2 | 292.2 | 284.9 |
| 34 | 558.80 | 0.00 | 8.00 | 51.339 | 8.398 | 0.013 | 292.7 | 282.2 | 292.1 | 285.3 |
| 35 | 558.80 | 0.00 | 12.00 | 50.818 | 7.582 | 0.013 | 292.7 | 282.1 | 291.9 | 285.8 |
| 36 | 558.80 | 0.00 | 16.00 | 50.512 | 6.635 | 0.014 | 292.7 | 282.1 | 291.6 | 286.2 |
| 37 | 558.80 | 0.00 | 20.00 | 50.337 | 5.703 | 0.015 | 292.7 | 282.2 | 291.5 | 286.8 |

File : TAB304T 6-FEB-89
6-FEB-89

Reduced experimental data file

DIAGONAL PROFILE'

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG III(B)

C1 : X/D = 11
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.510 kPa

Mean gauged plenum pressure : 51.116 kPa
RMS gauged plenum pressure : 0.124 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 558.80 | -160.00 | 0.00 | 51.182 | 0.034 | 0.014 | 281.4 | 280.9 | 281.3 | 281.3 |
| 3 | 558.80 | -152.00 | 0.00 | 51.168 | 0.022 | 0.013 | 281.4 | 280.9 | 281.4 | 281.4 |
| 4 | 558.80 | -144.00 | 0.00 | 51.106 | 0.014 | 0.014 | 281.3 | 280.9 | 281.4 | 281.4 |
| 5 | 558.80 | -136.00 | 0.00 | 50.986 | 0.014 | 0.019 | 281.3 | 280.9 | 281.4 | 281.4 |
| 6 | 558.80 | -128.00 | 0.00 | 50.920 | 0.014 | 0.016 | 281.3 | 280.9 | 281.4 | 281.4 |
| 7 | 558.80 | -120.00 | 0.00 | 50.987 | 0.084 | 0.016 | 281.3 | 280.9 | 281.4 | 281.3 |
| 8 | 558.80 | -112.00 | 0.00 | 50.978 | 0.153 | 0.017 | 281.3 | 280.9 | 281.4 | 281.3 |
| 9 | 558.80 | -104.00 | 0.00 | 51.160 | 0.397 | 0.016 | 281.3 | 280.9 | 281.4 | 281.1 |
| 10 | 558.80 | -96.00 | 0.00 | 51.115 | 0.773 | 0.017 | 281.3 | 280.9 | 281.4 | 280.8 |
| 11 | 558.80 | -88.00 | 0.00 | 51.118 | 1.371 | 0.017 | 281.3 | 280.9 | 281.4 | 280.3 |
| 12 | 558.80 | -80.00 | 0.00 | 51.170 | 2.048 | 0.015 | 281.3 | 280.9 | 281.4 | 279.7 |
| 13 | 558.80 | -72.00 | 0.00 | 51.317 | 2.913 | 0.014 | 281.4 | 280.9 | 281.4 | 279.1 |
| 14 | 558.80 | -64.00 | 0.00 | 51.372 | 4.156 | 0.018 | 281.4 | 280.9 | 281.6 | 278.3 |
| 15 | 558.80 | -56.00 | 0.00 | 51.239 | 5.406 | 0.017 | 281.4 | 280.9 | 281.4 | 277.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 558.80 | -48.00 | 0.00 | 51.194 | 7.090 | 0.018 | 281.4 | 280.9 | 281.4 | 275.9 |
| 17 | 558.80 | -40.00 | 0.00 | 51.200 | 8.555 | 0.018 | 281.3 | 280.9 | 281.5 | 274.9 |
| 18 | 558.80 | -32.00 | 0.00 | 51.205 | 9.470 | 0.015 | 281.4 | 280.9 | 281.3 | 274.0 |
| 19 | 558.80 | -24.00 | 0.00 | 51.219 | 9.795 | 0.016 | 281.4 | 281.0 | 281.3 | 273.8 |
| 20 | 558.80 | -16.00 | 0.00 | 51.203 | 9.933 | 0.014 | 281.4 | 280.9 | 281.4 | 273.8 |
| 21 | 558.80 | -8.00 | 0.00 | 51.199 | 9.877 | 0.017 | 281.5 | 281.0 | 281.4 | 273.8 |
| 22 | 558.80 | 0.00 | 0.00 | 51.173 | 9.962 | 0.015 | 281.5 | 281.0 | 281.4 | 273.7 |
| 23 | 558.80 | 8.00 | 0.00 | 51.038 | 10.166 | 0.014 | 281.5 | 281.0 | 281.3 | 273.5 |
| 24 | 558.80 | 16.00 | 0.00 | 50.886 | 10.482 | 0.018 | 281.5 | 281.0 | 281.2 | 273.2 |
| 25 | 558.80 | 24.00 | 0.00 | 50.786 | 10.636 | 0.015 | 281.4 | 281.0 | 281.2 | 273.1 |
| 26 | 558.80 | 32.00 | 0.00 | 51.169 | 10.049 | 0.014 | 281.4 | 281.0 | 281.3 | 273.6 |
| 27 | 558.80 | 40.00 | 0.00 | 51.123 | 8.925 | 0.015 | 281.5 | 281.0 | 281.3 | 274.4 |
| 28 | 558.80 | 48.00 | 0.00 | 51.105 | 7.109 | 0.016 | 281.5 | 281.0 | 281.3 | 275.7 |
| 29 | 558.80 | 56.00 | 0.00 | 51.080 | 5.300 | 0.015 | 281.6 | 281.0 | 281.3 | 277.1 |
| 30 | 558.80 | 64.00 | 0.00 | 51.058 | 4.109 | 0.016 | 281.6 | 281.0 | 281.4 | 278.1 |
| 31 | 558.80 | 72.00 | 0.00 | 51.138 | 2.823 | 0.015 | 281.5 | 281.0 | 281.4 | 279.1 |
| 32 | 558.80 | 80.00 | 0.00 | 51.295 | 1.821 | 0.015 | 281.5 | 281.0 | 281.4 | 279.9 |
| 33 | 558.80 | 88.00 | 0.00 | 51.182 | 0.804 | 0.017 | 281.5 | 281.0 | 281.4 | 280.7 |
| 34 | 558.80 | 96.00 | 0.00 | 51.128 | 0.729 | 0.017 | 281.5 | 281.0 | 281.4 | 280.8 |
| 35 | 558.80 | 104.00 | 0.00 | 51.147 | 0.364 | 0.017 | 281.5 | 281.0 | 281.4 | 281.1 |
| 36 | 558.80 | 112.00 | 0.00 | 51.129 | 0.080 | 0.016 | 281.5 | 281.0 | 281.4 | 281.3 |
| 37 | 558.80 | 120.00 | 0.00 | 51.119 | 0.028 | 0.015 | 281.5 | 280.9 | 281.4 | 281.4 |
| 38 | 558.80 | 128.00 | 0.00 | 51.122 | 0.020 | 0.015 | 281.6 | 281.0 | 281.5 | 281.5 |
| 39 | 558.80 | 136.00 | 0.00 | 51.099 | 0.013 | 0.017 | 281.5 | 281.0 | 281.4 | 281.4 |
| 40 | 558.80 | 144.00 | 0.00 | 51.052 | 0.013 | 0.015 | 281.6 | 281.0 | 281.4 | 281.4 |
| 41 | 558.80 | 152.00 | 0.00 | 51.004 | 0.013 | 0.015 | 281.6 | 281.0 | 281.5 | 281.5 |
| 42 | 558.80 | 160.00 | 0.00 | 51.026 | 0.012 | 0.018 | 281.7 | 281.0 | 281.5 | 281.5 |

File : TAB155T 16-NOV-88
16-NOV-88

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config. III(b)

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.833 kPa

Mean gauged plenum pressure : 51.086 kPa
RMS gauged plenum pressure : 0.416 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.487 | 0.256 | 0.012 | 297.0 | 286.7 | 294.7 | 294.5 |
| 3 | 457.20 | -105.00 | 0.00 | 51.892 | 0.517 | 0.012 | 296.9 | 286.7 | 294.2 | 293.8 |
| 4 | 457.20 | -100.00 | 0.00 | 52.438 | 0.680 | 0.012 | 296.5 | 286.6 | 293.9 | 293.3 |
| 5 | 457.20 | -95.00 | 0.00 | 51.220 | 0.971 | 0.012 | 296.6 | 286.6 | 293.3 | 292.5 |
| 6 | 457.20 | -90.00 | 0.00 | 51.218 | 1.529 | 0.012 | 296.2 | 286.6 | 293.1 | 291.8 |
| 7 | 457.20 | -85.00 | 0.00 | 51.065 | 2.334 | 0.012 | 296.4 | 286.5 | 293.1 | 291.1 |
| 8 | 457.20 | -80.00 | 0.00 | 50.884 | 2.952 | 0.012 | 296.3 | 286.5 | 292.7 | 290.2 |
| 9 | 457.20 | -75.00 | 0.00 | 50.687 | 3.769 | 0.012 | 296.2 | 286.5 | 292.3 | 289.2 |
| 10 | 457.20 | -70.00 | 0.00 | 50.511 | 4.818 | 0.012 | 296.2 | 286.5 | 291.9 | 287.9 |
| 11 | 457.20 | -65.00 | 0.00 | 50.480 | 6.179 | 0.012 | 296.0 | 286.5 | 291.3 | 286.2 |
| 12 | 457.20 | -60.00 | 0.00 | 50.571 | 7.331 | 0.012 | 296.0 | 286.5 | 291.2 | 285.2 |
| 13 | 457.20 | -55.00 | 0.00 | 50.793 | 8.646 | 0.012 | 296.1 | 286.5 | 291.0 | 284.0 |
| 14 | 457.20 | -50.00 | 0.00 | 51.009 | 10.103 | 0.012 | 296.1 | 286.5 | 290.7 | 282.6 |
| 15 | 457.20 | -45.00 | 0.00 | 51.010 | 11.375 | 0.012 | 296.1 | 286.5 | 290.4 | 281.4 |
| 16 | 457.20 | -40.00 | 0.00 | 50.845 | 12.735 | 0.012 | 296.1 | 286.5 | 290.4 | 280.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | -35.00 | 0.00 | 50.756 | 13.439 | 0.012 | 296.0 | 286.4 | 290.2 | 279.7 |
| 18 | 457.20 | -30.00 | 0.00 | 50.695 | 13.854 | 0.012 | 295.9 | 286.4 | 290.0 | 279.2 |
| 19 | 457.20 | -25.00 | 0.00 | 50.609 | 13.561 | 0.012 | 295.9 | 286.4 | 289.7 | 279.1 |
| 20 | 457.20 | -20.00 | 0.00 | 50.627 | 12.791 | 0.012 | 295.8 | 286.4 | 289.6 | 279.6 |
| 21 | 457.20 | -15.00 | 0.00 | 50.745 | 11.745 | 0.012 | 295.9 | 286.4 | 289.4 | 280.2 |
| 22 | 457.20 | -10.00 | 0.00 | 50.840 | 11.008 | 0.012 | 296.0 | 286.3 | 289.4 | 280.7 |
| 23 | 457.20 | -5.00 | 0.00 | 50.902 | 10.526 | 0.012 | 295.9 | 286.3 | 289.1 | 280.8 |
| 24 | 457.20 | 0.00 | 0.00 | 50.969 | 10.349 | 0.012 | 295.9 | 286.3 | 288.9 | 280.7 |
| 25 | 457.20 | 5.00 | 0.00 | 50.959 | 10.999 | 0.012 | 295.8 | 286.3 | 289.0 | 280.3 |
| 26 | 457.20 | 10.00 | 0.00 | 50.927 | 11.724 | 0.012 | 295.7 | 286.2 | 289.1 | 279.9 |
| 27 | 457.20 | 15.00 | 0.00 | 50.931 | 12.953 | 0.012 | 295.8 | 286.3 | 289.4 | 279.3 |
| 28 | 457.20 | 20.00 | 0.00 | 50.940 | 13.666 | 0.012 | 295.9 | 286.2 | 289.6 | 279.0 |
| 29 | 457.20 | 25.00 | 0.00 | 50.886 | 14.067 | 0.012 | 296.6 | 286.2 | 289.9 | 279.0 |
| 30 | 457.20 | 30.00 | 0.00 | 50.726 | 13.661 | 0.012 | 296.9 | 286.2 | 289.8 | 279.2 |
| 31 | 457.20 | 35.00 | 0.00 | 50.696 | 12.711 | 0.012 | 296.7 | 286.2 | 290.0 | 280.0 |
| 32 | 457.20 | 40.00 | 0.00 | 50.817 | 10.860 | 0.012 | 297.0 | 286.2 | 290.1 | 281.5 |
| 33 | 457.20 | 45.00 | 0.00 | 50.930 | 9.298 | 0.012 | 296.9 | 286.2 | 290.0 | 282.6 |
| 34 | 457.20 | 50.00 | 0.00 | 51.073 | 7.035 | 0.012 | 296.4 | 286.2 | 290.3 | 284.6 |
| 35 | 457.20 | 55.00 | 0.00 | 51.125 | 5.784 | 0.013 | 296.4 | 286.2 | 290.6 | 285.9 |
| 36 | 457.20 | 60.00 | 0.00 | 51.097 | 4.437 | 0.013 | 296.5 | 286.2 | 290.9 | 287.2 |
| 37 | 457.20 | 65.00 | 0.00 | 51.027 | 3.680 | 0.013 | 296.2 | 286.2 | 291.4 | 288.3 |
| 38 | 457.20 | 70.00 | 0.00 | 50.972 | 2.884 | 0.013 | 296.0 | 286.2 | 291.8 | 289.4 |
| 39 | 457.20 | 75.00 | 0.00 | 51.277 | 2.374 | 0.012 | 295.9 | 286.2 | 292.1 | 290.1 |
| 40 | 457.20 | 80.00 | 0.00 | 51.472 | 1.705 | 0.012 | 295.8 | 286.2 | 292.3 | 290.9 |
| 41 | 457.20 | 85.00 | 0.00 | 51.628 | 1.202 | 0.013 | 295.7 | 286.2 | 292.9 | 291.9 |
| 42 | 457.20 | 90.00 | 0.00 | 51.734 | 0.830 | 0.012 | 295.7 | 286.2 | 293.1 | 292.4 |
| 43 | 457.20 | 95.00 | 0.00 | 51.754 | 0.450 | 0.012 | 295.7 | 286.2 | 293.5 | 293.1 |
| 44 | 457.20 | 100.00 | 0.00 | 51.718 | 0.263 | 0.014 | 295.7 | 286.2 | 293.8 | 293.6 |
| 45 | 457.20 | 105.00 | 0.00 | 51.624 | 0.149 | 0.014 | 295.6 | 286.2 | 294.0 | 293.9 |
| 46 | 457.20 | 110.00 | 0.00 | 51.561 | 0.024 | 0.015 | 295.6 | 286.2 | 294.3 | 294.3 |

File : TAB156T 16-NOV-88
16-NOV-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, Config. III(b)

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.799 kPa

Mean gauged plenum pressure : 52.019 kPa
RMS gauged plenum pressure : 0.330 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -100.00 | 51.478 | 0.013 | 0.016 | 296.3 | 286.2 | 294.3 | 294.3 |
| 3 | 457.20 | 0.00 | -97.00 | 51.492 | 0.012 | 0.014 | 296.2 | 286.2 | 294.5 | 294.5 |
| 4 | 457.20 | 0.00 | -94.00 | 51.610 | 0.012 | 0.013 | 296.4 | 286.2 | 294.2 | 294.2 |
| 5 | 457.20 | 0.00 | -91.00 | 51.732 | 0.013 | 0.014 | 296.4 | 286.2 | 294.0 | 294.0 |
| 6 | 457.20 | 0.00 | -88.00 | 51.823 | 0.024 | 0.020 | 296.0 | 286.2 | 293.8 | 293.8 |
| 7 | 457.20 | 0.00 | -85.00 | 51.865 | 0.048 | 0.016 | 295.6 | 286.1 | 293.5 | 293.5 |
| 8 | 457.20 | 0.00 | -82.00 | 51.848 | 0.160 | 0.014 | 295.5 | 286.1 | 293.2 | 293.1 |
| 9 | 457.20 | 0.00 | -79.00 | 52.013 | 0.215 | 0.014 | 295.4 | 286.1 | 292.9 | 292.7 |
| 10 | 457.20 | 0.00 | -76.00 | 51.896 | 0.352 | 0.013 | 295.4 | 286.1 | 292.7 | 292.4 |
| 11 | 457.20 | 0.00 | -73.00 | 51.824 | 0.595 | 0.013 | 295.4 | 286.1 | 292.4 | 291.9 |
| 12 | 457.20 | 0.00 | -70.00 | 51.754 | 0.739 | 0.014 | 295.4 | 286.1 | 292.4 | 291.8 |
| 13 | 457.20 | 0.00 | -67.00 | 51.730 | 0.990 | 0.014 | 295.3 | 286.0 | 292.1 | 291.3 |
| 14 | 457.20 | 0.00 | -64.00 | 51.751 | 1.430 | 0.014 | 295.3 | 286.1 | 292.0 | 290.8 |
| 15 | 457.20 | 0.00 | -61.00 | 51.750 | 1.752 | 0.014 | 295.4 | 286.0 | 291.6 | 290.1 |
| 16 | 457.20 | 0.00 | -58.00 | 51.749 | 2.102 | 0.013 | 295.3 | 286.1 | 291.5 | 289.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 457.20 | 0.00 | -55.00 | 51.713 | 2.582 | 0.014 | 295.3 | 286.0 | 291.2 | 289.0 |
| 18 | 457.20 | 0.00 | -52.00 | 51.680 | 3.106 | 0.013 | 295.3 | 286.0 | 291.1 | 288.5 |
| 19 | 457.20 | 0.00 | -49.00 | 51.671 | 3.695 | 0.014 | 295.3 | 286.0 | 290.9 | 287.8 |
| 20 | 457.20 | 0.00 | -46.00 | 51.658 | 4.359 | 0.013 | 295.3 | 286.0 | 290.7 | 287.1 |
| 21 | 457.20 | 0.00 | -43.00 | 51.836 | 4.939 | 0.014 | 295.3 | 286.0 | 290.6 | 286.5 |
| 22 | 457.20 | 0.00 | -40.00 | 52.217 | 5.734 | 0.013 | 295.3 | 286.0 | 290.3 | 285.6 |
| 23 | 457.20 | 0.00 | -37.00 | 52.229 | 6.464 | 0.013 | 295.3 | 286.0 | 290.2 | 284.9 |
| 24 | 457.20 | 0.00 | -34.00 | 52.225 | 7.143 | 0.015 | 295.3 | 286.0 | 290.0 | 284.2 |
| 25 | 457.20 | 0.00 | -31.00 | 52.166 | 7.927 | 0.013 | 295.6 | 286.0 | 290.0 | 283.6 |
| 26 | 457.20 | 0.00 | -28.00 | 52.139 | 8.833 | 0.013 | 296.2 | 286.0 | 289.9 | 282.8 |
| 27 | 457.20 | 0.00 | -25.00 | 52.093 | 9.441 | 0.013 | 296.3 | 286.0 | 289.8 | 282.3 |
| 28 | 457.20 | 0.00 | -22.00 | 52.170 | 10.154 | 0.014 | 296.0 | 286.0 | 289.5 | 281.4 |
| 29 | 457.20 | 0.00 | -19.00 | 52.207 | 10.794 | 0.015 | 296.3 | 286.0 | 289.2 | 280.7 |
| 30 | 457.20 | 0.00 | -16.00 | 52.136 | 11.244 | 0.019 | 296.4 | 286.0 | 289.2 | 280.3 |
| 31 | 457.20 | 0.00 | -13.00 | 52.181 | 11.613 | 0.014 | 296.4 | 286.1 | 289.0 | 279.9 |
| 32 | 457.20 | 0.00 | -10.00 | 52.263 | 11.629 | 0.012 | 296.1 | 286.0 | 288.8 | 279.7 |
| 33 | 457.20 | 0.00 | -7.00 | 52.270 | 11.766 | 0.013 | 296.0 | 286.0 | 288.7 | 279.5 |
| 34 | 457.20 | 0.00 | -4.00 | 52.290 | 11.434 | 0.014 | 295.6 | 286.0 | 288.4 | 279.4 |
| 35 | 457.20 | 0.00 | -1.00 | 52.350 | 10.896 | 0.013 | 295.3 | 286.0 | 288.4 | 279.8 |
| 36 | 457.20 | 0.00 | 2.00 | 52.416 | 10.461 | 0.013 | 295.1 | 286.0 | 288.3 | 280.0 |
| 37 | 457.20 | 0.00 | 5.00 | 52.498 | 9.722 | 0.013 | 295.0 | 286.1 | 288.4 | 280.7 |
| 38 | 457.20 | 0.00 | 8.00 | 52.535 | 8.945 | 0.013 | 295.0 | 286.0 | 288.3 | 281.2 |
| 39 | 457.20 | 0.00 | 11.00 | 52.583 | 8.185 | 0.013 | 294.9 | 286.0 | 288.5 | 281.9 |
| 40 | 457.20 | 0.00 | 14.00 | 52.679 | 7.272 | 0.012 | 294.9 | 286.0 | 288.6 | 282.7 |
| 41 | 457.20 | 0.00 | 17.00 | 52.497 | 6.273 | 0.013 | 294.9 | 286.0 | 288.8 | 283.7 |
| 42 | 457.20 | 0.00 | 20.00 | 52.359 | 5.479 | 0.012 | 294.8 | 286.0 | 288.8 | 284.3 |

File : TAB170T 9-DEC-88
21-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB
Config III(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.239 kPa

Mean gauged plenum pressure : 51.385 kPa
RMS gauged plenum pressure : 0.426 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 52.176 | 0.165 | 0.019 | 289.3 | 284.8 | 287.3 | 287.2 |
| 3 | 457.20 | -105.00 | 0.00 | 52.187 | 0.234 | 0.014 | 289.1 | 284.8 | 287.0 | 286.8 |
| 4 | 457.20 | -100.00 | 0.00 | 51.835 | 0.447 | 0.016 | 289.1 | 284.8 | 286.9 | 286.5 |
| 5 | 457.20 | -95.00 | 0.00 | 51.532 | 0.655 | 0.019 | 289.4 | 284.8 | 287.0 | 286.5 |
| 6 | 457.20 | -90.00 | 0.00 | 51.267 | 1.057 | 0.018 | 289.4 | 284.8 | 286.9 | 286.0 |
| 7 | 457.20 | -85.00 | 0.00 | 50.898 | 1.492 | 0.016 | 289.4 | 284.8 | 286.5 | 285.3 |
| 8 | 457.20 | -80.00 | 0.00 | 49.896 | 2.156 | 0.018 | 289.3 | 284.8 | 286.0 | 284.2 |
| 9 | 457.20 | -75.00 | 0.00 | 52.759 | 2.993 | 0.017 | 289.3 | 284.9 | 286.4 | 284.0 |
| 10 | 457.20 | -70.00 | 0.00 | 51.100 | 3.744 | 0.013 | 289.4 | 285.0 | 286.0 | 283.0 |
| 11 | 457.20 | -65.00 | 0.00 | 50.999 | 5.004 | 0.016 | 289.4 | 284.9 | 285.8 | 281.8 |
| 12 | 457.20 | -60.00 | 0.00 | 51.430 | 6.169 | 0.016 | 289.4 | 284.9 | 285.8 | 280.9 |
| 13 | 457.20 | -55.00 | 0.00 | 51.327 | 7.126 | 0.013 | 289.5 | 284.9 | 285.5 | 279.8 |
| 14 | 457.20 | -50.00 | 0.00 | 51.176 | 8.544 | 0.014 | 289.7 | 284.9 | 285.4 | 278.7 |
| 15 | 457.20 | -45.00 | 0.00 | 51.506 | 9.671 | 0.014 | 289.6 | 284.9 | 285.4 | 277.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.468 | 11.182 | 0.013 | 289.4 | 284.9 | 285.5 | 276.8 |
| 17 | 457.20 | -35.00 | 0.00 | 51.760 | 12.518 | 0.013 | 289.1 | 285.0 | 285.3 | 275.7 |
| 18 | 457.20 | -30.00 | 0.00 | 51.279 | 12.837 | 0.013 | 289.2 | 285.0 | 285.1 | 275.3 |
| 19 | 457.20 | -25.00 | 0.00 | 51.189 | 12.846 | 0.012 | 289.1 | 285.0 | 285.3 | 275.4 |
| 20 | 457.20 | -20.00 | 0.00 | 51.187 | 12.396 | 0.012 | 289.2 | 285.0 | 284.8 | 275.3 |
| 21 | 457.20 | -15.00 | 0.00 | 51.358 | 11.932 | 0.012 | 289.2 | 284.9 | 284.5 | 275.3 |
| 22 | 457.20 | -10.00 | 0.00 | 51.324 | 11.159 | 0.012 | 289.2 | 284.9 | 284.5 | 275.9 |
| 23 | 457.20 | -5.00 | 0.00 | 51.358 | 10.666 | 0.012 | 289.1 | 284.9 | 284.1 | 275.8 |
| 24 | 457.20 | 0.00 | 0.00 | 51.435 | 10.690 | 0.012 | 289.2 | 284.9 | 284.3 | 276.0 |
| 25 | 457.20 | 5.00 | 0.00 | 51.533 | 11.301 | 0.012 | 289.3 | 285.0 | 284.4 | 275.7 |
| 26 | 457.20 | 10.00 | 0.00 | 51.324 | 12.061 | 0.012 | 289.1 | 285.0 | 284.4 | 275.1 |
| 27 | 457.20 | 15.00 | 0.00 | 51.732 | 13.200 | 0.012 | 289.1 | 285.0 | 284.8 | 274.7 |
| 28 | 457.20 | 20.00 | 0.00 | 51.046 | 13.771 | 0.012 | 289.2 | 284.9 | 285.2 | 274.7 |
| 29 | 457.20 | 25.00 | 0.00 | 51.411 | 14.347 | 0.012 | 289.2 | 284.9 | 285.2 | 274.3 |
| 30 | 457.20 | 30.00 | 0.00 | 50.928 | 13.568 | 0.012 | 289.2 | 284.9 | 285.3 | 274.9 |
| 31 | 457.20 | 35.00 | 0.00 | 51.266 | 12.341 | 0.012 | 289.3 | 284.9 | 285.2 | 275.7 |
| 32 | 457.20 | 40.00 | 0.00 | 51.503 | 10.888 | 0.012 | 289.4 | 284.9 | 284.9 | 276.5 |
| 33 | 457.20 | 45.00 | 0.00 | 51.267 | 8.890 | 0.013 | 289.4 | 285.0 | 285.3 | 278.3 |
| 34 | 457.20 | 50.00 | 0.00 | 51.564 | 6.907 | 0.012 | 289.4 | 284.9 | 285.2 | 279.7 |
| 35 | 457.20 | 55.00 | 0.00 | 51.695 | 5.435 | 0.012 | 289.4 | 285.0 | 285.3 | 280.9 |
| 36 | 457.20 | 60.00 | 0.00 | 51.296 | 4.362 | 0.012 | 289.7 | 284.9 | 285.4 | 281.9 |
| 37 | 457.20 | 65.00 | 0.00 | 51.327 | 3.589 | 0.012 | 290.0 | 284.9 | 285.7 | 282.8 |
| 38 | 457.20 | 70.00 | 0.00 | 51.149 | 2.337 | 0.012 | 290.5 | 284.9 | 285.8 | 283.9 |
| 39 | 457.20 | 75.00 | 0.00 | 50.876 | 1.855 | 0.012 | 290.7 | 284.9 | 286.1 | 284.6 |
| 40 | 457.20 | 80.00 | 0.00 | 51.390 | 1.371 | 0.012 | 290.7 | 285.0 | 286.6 | 285.5 |
| 41 | 457.20 | 85.00 | 0.00 | 51.361 | 0.772 | 0.012 | 290.7 | 284.9 | 286.8 | 286.2 |
| 42 | 457.20 | 90.00 | 0.00 | 51.483 | 0.672 | 0.012 | 290.0 | 284.9 | 286.7 | 286.1 |
| 43 | 457.20 | 95.00 | 0.00 | 51.479 | 0.369 | 0.012 | 289.8 | 284.9 | 286.8 | 286.5 |
| 44 | 457.20 | 100.00 | 0.00 | 51.632 | 0.155 | 0.012 | 289.5 | 284.9 | 286.9 | 286.8 |
| 45 | 457.20 | 105.00 | 0.00 | 51.287 | 0.103 | 0.012 | 289.3 | 285.0 | 286.9 | 286.8 |
| 46 | 457.20 | 110.00 | 0.00 | 51.275 | 0.050 | 0.012 | 289.5 | 285.0 | 287.3 | 287.3 |

File : TAB181T

10-DEC-88
23-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, +14 DEG
Config III(b)

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.138 kPa

Mean gauged plenum pressure : 51.321 kPa
RMS gauged plenum pressure : 0.209 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.373 | 0.191 | 0.013 | 283.4 | 283.8 | 283.1 | 282.9 |
| 3 | 457.20 | -105.00 | 0.00 | 51.302 | 0.243 | 0.013 | 283.5 | 283.8 | 282.9 | 282.7 |
| 4 | 457.20 | -100.00 | 0.00 | 51.269 | 0.378 | 0.013 | 283.5 | 283.8 | 282.8 | 282.5 |
| 5 | 457.20 | -95.00 | 0.00 | 51.231 | 0.865 | 0.013 | 283.5 | 283.8 | 282.8 | 282.1 |
| 6 | 457.20 | -90.00 | 0.00 | 51.244 | 1.347 | 0.013 | 283.5 | 283.8 | 282.8 | 281.7 |
| 7 | 457.20 | -85.00 | 0.00 | 51.269 | 1.634 | 0.014 | 283.5 | 283.9 | 282.5 | 281.2 |
| 8 | 457.20 | -80.00 | 0.00 | 51.283 | 2.223 | 0.013 | 283.5 | 283.9 | 282.6 | 280.8 |
| 9 | 457.20 | -75.00 | 0.00 | 51.279 | 2.959 | 0.013 | 283.5 | 283.9 | 282.6 | 280.2 |
| 10 | 457.20 | -70.00 | 0.00 | 51.239 | 3.768 | 0.013 | 283.5 | 283.9 | 282.3 | 279.3 |
| 11 | 457.20 | -65.00 | 0.00 | 51.208 | 4.769 | 0.013 | 283.5 | 283.9 | 282.3 | 278.5 |
| 12 | 457.20 | -60.00 | 0.00 | 51.192 | 5.790 | 0.013 | 283.6 | 283.9 | 282.3 | 277.7 |
| 13 | 457.20 | -55.00 | 0.00 | 51.028 | 6.968 | 0.014 | 283.6 | 283.9 | 282.3 | 276.8 |
| 14 | 457.20 | -50.00 | 0.00 | 50.960 | 8.187 | 0.013 | 283.7 | 283.9 | 282.3 | 275.9 |
| 15 | 457.20 | -45.00 | 0.00 | 50.996 | 10.009 | 0.013 | 283.6 | 283.9 | 282.3 | 274.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.463 | 11.764 | 0.018 | 283.6 | 283.9 | 282.2 | 273.2 |
| 17 | 457.20 | -35.00 | 0.00 | 51.424 | 13.249 | 0.014 | 283.6 | 283.9 | 282.5 | 272.4 |
| 18 | 457.20 | -30.00 | 0.00 | 51.408 | 14.138 | 0.013 | 283.7 | 283.9 | 282.4 | 271.7 |
| 19 | 457.20 | -25.00 | 0.00 | 51.435 | 14.778 | 0.014 | 283.7 | 283.9 | 282.5 | 271.4 |
| 20 | 457.20 | -20.00 | 0.00 | 51.479 | 14.767 | 0.017 | 283.7 | 283.9 | 282.3 | 271.2 |
| 21 | 457.20 | -15.00 | 0.00 | 51.493 | 14.367 | 0.018 | 283.6 | 283.9 | 281.9 | 271.1 |
| 22 | 457.20 | -10.00 | 0.00 | 51.522 | 13.645 | 0.016 | 283.7 | 283.9 | 281.8 | 271.5 |
| 23 | 457.20 | -5.00 | 0.00 | 51.575 | 13.133 | 0.014 | 283.7 | 283.9 | 281.7 | 271.8 |
| 24 | 457.20 | 0.00 | 0.00 | 51.632 | 13.013 | 0.014 | 283.8 | 283.9 | 281.7 | 271.8 |
| 25 | 457.20 | 5.00 | 0.00 | 51.656 | 12.978 | 0.013 | 283.8 | 283.9 | 281.6 | 271.8 |
| 26 | 457.20 | 10.00 | 0.00 | 51.632 | 13.484 | 0.014 | 283.8 | 284.0 | 281.9 | 271.7 |
| 27 | 457.20 | 15.00 | 0.00 | 51.627 | 13.785 | 0.015 | 283.9 | 283.9 | 281.9 | 271.5 |
| 28 | 457.20 | 20.00 | 0.00 | 51.093 | 14.291 | 0.015 | 283.8 | 283.9 | 282.3 | 271.5 |
| 29 | 457.20 | 25.00 | 0.00 | 51.089 | 14.126 | 0.018 | 283.9 | 283.9 | 282.5 | 271.8 |
| 30 | 457.20 | 30.00 | 0.00 | 51.012 | 13.234 | 0.017 | 283.9 | 283.9 | 282.6 | 272.5 |
| 31 | 457.20 | 35.00 | 0.00 | 51.013 | 11.901 | 0.018 | 284.0 | 283.9 | 282.5 | 273.4 |
| 32 | 457.20 | 40.00 | 0.00 | 51.021 | 10.445 | 0.018 | 284.0 | 283.9 | 282.4 | 274.3 |
| 33 | 457.20 | 45.00 | 0.00 | 50.994 | 8.721 | 0.016 | 283.9 | 283.9 | 282.6 | 275.8 |
| 34 | 457.20 | 50.00 | 0.00 | 51.343 | 7.413 | 0.017 | 283.9 | 283.9 | 282.6 | 276.8 |
| 35 | 457.20 | 55.00 | 0.00 | 51.334 | 5.916 | 0.018 | 284.0 | 283.9 | 282.6 | 277.9 |
| 36 | 457.20 | 60.00 | 0.00 | 51.370 | 4.757 | 0.017 | 283.9 | 283.9 | 282.5 | 278.7 |
| 37 | 457.20 | 65.00 | 0.00 | 51.393 | 3.759 | 0.019 | 283.9 | 283.9 | 282.6 | 279.6 |
| 38 | 457.20 | 70.00 | 0.00 | 51.383 | 3.009 | 0.018 | 283.9 | 283.9 | 282.8 | 280.4 |
| 39 | 457.20 | 75.00 | 0.00 | 51.385 | 2.158 | 0.018 | 283.9 | 283.9 | 282.9 | 281.1 |
| 40 | 457.20 | 80.00 | 0.00 | 51.330 | 1.746 | 0.019 | 283.9 | 283.9 | 283.2 | 281.8 |
| 41 | 457.20 | 85.00 | 0.00 | 51.365 | 1.117 | 0.017 | 283.9 | 283.9 | 283.3 | 282.4 |
| 42 | 457.20 | 90.00 | 0.00 | 51.385 | 0.776 | 0.021 | 284.0 | 283.9 | 283.4 | 282.8 |
| 43 | 457.20 | 95.00 | 0.00 | 51.387 | 0.515 | 0.020 | 284.0 | 283.9 | 283.4 | 283.0 |
| 44 | 457.20 | 100.00 | 0.00 | 51.382 | 0.280 | 0.022 | 284.0 | 283.9 | 283.4 | 283.2 |
| 45 | 457.20 | 105.00 | 0.00 | 51.379 | 0.184 | 0.021 | 284.0 | 284.0 | 283.6 | 283.4 |
| 46 | 457.20 | 110.00 | 0.00 | 51.390 | 0.095 | 0.020 | 284.1 | 284.0 | 283.7 | 283.6 |

File : TAB327T 20-FEB-89
20-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG III(B)

C1 : X/D = 7
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.375 kPa

Mean gauged plenum pressure : 51.180 kPa
RMS gauged plenum pressure : 0.113 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | -110.00 | 0.00 | 51.118 | 0.100 | 0.033 | 276.7 | 278.5 | 276.8 | 276.7 |
| 3 | 355.60 | -105.00 | 0.00 | 51.133 | 0.109 | 0.032 | 276.6 | 278.6 | 276.8 | 276.7 |
| 4 | 355.60 | -100.00 | 0.00 | 51.080 | 0.187 | 0.044 | 276.5 | 278.7 | 276.7 | 276.5 |
| 5 | 355.60 | -95.00 | 0.00 | 51.272 | 0.405 | 0.039 | 276.5 | 278.8 | 276.7 | 276.4 |
| 6 | 355.60 | -90.00 | 0.00 | 51.062 | 0.709 | 0.038 | 276.4 | 278.8 | 276.7 | 276.1 |
| 7 | 355.60 | -85.00 | 0.00 | 50.875 | 1.077 | 0.039 | 276.4 | 278.9 | 276.6 | 275.7 |
| 8 | 355.60 | -80.00 | 0.00 | 51.021 | 1.842 | 0.037 | 276.4 | 278.9 | 276.6 | 275.1 |
| 9 | 355.60 | -75.00 | 0.00 | 51.043 | 2.592 | 0.037 | 276.4 | 279.0 | 276.6 | 274.5 |
| 10 | 355.60 | -70.00 | 0.00 | 51.064 | 3.583 | 0.044 | 276.4 | 279.1 | 276.5 | 273.7 |
| 11 | 355.60 | -65.00 | 0.00 | 51.217 | 4.862 | 0.047 | 276.4 | 279.1 | 276.6 | 272.8 |
| 12 | 355.60 | -60.00 | 0.00 | 51.394 | 6.391 | 0.041 | 276.4 | 279.2 | 276.6 | 271.7 |
| 13 | 355.60 | -55.00 | 0.00 | 51.216 | 7.949 | 0.043 | 276.4 | 279.3 | 276.6 | 270.5 |
| 14 | 355.60 | -50.00 | 0.00 | 51.372 | 9.729 | 0.039 | 276.4 | 279.3 | 276.6 | 269.2 |
| 15 | 355.60 | -45.00 | 0.00 | 51.443 | 11.957 | 0.039 | 276.5 | 279.3 | 276.6 | 267.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | -40.00 | 0.00 | 51.326 | 14.166 | 0.042 | 276.4 | 279.4 | 276.6 | 266.1 |
| 17 | 355.60 | -35.00 | 0.00 | 51.295 | 16.826 | 0.055 | 276.4 | 279.4 | 276.5 | 264.3 |
| 18 | 355.60 | -30.00 | 0.00 | 51.223 | 19.367 | 0.046 | 276.5 | 279.4 | 276.5 | 262.6 |
| 19 | 355.60 | -25.00 | 0.00 | 51.168 | 21.804 | 0.048 | 276.5 | 279.4 | 276.5 | 261.1 |
| 20 | 355.60 | -20.00 | 0.00 | 51.068 | 22.827 | 0.044 | 276.5 | 279.4 | 276.6 | 260.6 |
| 21 | 355.60 | -15.00 | 0.00 | 51.059 | 22.254 | 0.040 | 276.5 | 279.5 | 276.6 | 260.9 |
| 22 | 355.60 | -10.00 | 0.00 | 51.129 | 20.375 | 0.041 | 276.4 | 279.5 | 276.6 | 262.1 |
| 23 | 355.60 | -5.00 | 0.00 | 51.071 | 17.995 | 0.043 | 276.4 | 279.4 | 276.5 | 263.5 |
| 24 | 355.60 | 0.00 | 0.00 | 51.058 | 16.085 | 0.039 | 276.4 | 279.5 | 276.5 | 264.8 |
| 25 | 355.60 | 5.00 | 0.00 | 51.050 | 15.314 | 0.038 | 276.4 | 279.5 | 276.5 | 265.3 |
| 26 | 355.60 | 10.00 | 0.00 | 51.039 | 16.300 | 0.037 | 276.4 | 279.5 | 276.5 | 264.6 |
| 27 | 355.60 | 15.00 | 0.00 | 51.081 | 18.451 | 0.037 | 276.4 | 279.4 | 276.4 | 263.1 |
| 28 | 355.60 | 20.00 | 0.00 | 51.107 | 21.149 | 0.037 | 276.4 | 279.5 | 276.5 | 261.5 |
| 29 | 355.60 | 25.00 | 0.00 | 51.148 | 22.936 | 0.036 | 276.4 | 279.5 | 276.5 | 260.4 |
| 30 | 355.60 | 30.00 | 0.00 | 51.204 | 22.973 | 0.031 | 276.4 | 279.5 | 276.5 | 260.4 |
| 31 | 355.60 | 35.00 | 0.00 | 51.238 | 20.550 | 0.029 | 276.4 | 279.5 | 276.5 | 261.9 |
| 32 | 355.60 | 40.00 | 0.00 | 51.266 | 17.294 | 0.031 | 276.4 | 279.5 | 276.5 | 264.0 |
| 33 | 355.60 | 45.00 | 0.00 | 51.232 | 13.804 | 0.030 | 276.4 | 279.5 | 276.5 | 266.3 |
| 34 | 355.60 | 50.00 | 0.00 | 51.235 | 10.586 | 0.025 | 276.4 | 279.5 | 276.5 | 268.5 |
| 35 | 355.60 | 55.00 | 0.00 | 51.267 | 8.324 | 0.026 | 276.4 | 279.5 | 276.4 | 270.0 |
| 36 | 355.60 | 60.00 | 0.00 | 51.255 | 6.458 | 0.023 | 276.4 | 279.5 | 276.5 | 271.5 |
| 37 | 355.60 | 65.00 | 0.00 | 51.253 | 5.118 | 0.024 | 276.4 | 279.5 | 276.5 | 272.5 |
| 38 | 355.60 | 70.00 | 0.00 | 51.247 | 3.699 | 0.024 | 276.5 | 279.5 | 276.5 | 273.6 |
| 39 | 355.60 | 75.00 | 0.00 | 51.244 | 2.955 | 0.024 | 276.4 | 279.5 | 276.4 | 274.1 |
| 40 | 355.60 | 80.00 | 0.00 | 51.236 | 2.057 | 0.023 | 276.5 | 279.5 | 276.5 | 274.9 |
| 41 | 355.60 | 85.00 | 0.00 | 51.222 | 1.451 | 0.024 | 276.4 | 279.5 | 276.5 | 275.3 |
| 42 | 355.60 | 90.00 | 0.00 | 51.227 | 0.814 | 0.020 | 276.4 | 279.5 | 276.5 | 275.8 |
| 43 | 355.60 | 95.00 | 0.00 | 51.223 | 0.520 | 0.023 | 276.5 | 279.5 | 276.5 | 276.1 |
| 44 | 355.60 | 100.00 | 0.00 | 51.230 | 0.295 | 0.014 | 276.4 | 279.5 | 276.5 | 276.3 |
| 45 | 355.60 | 105.00 | 0.00 | 51.222 | 0.083 | 0.013 | 276.5 | 279.5 | 276.5 | 276.4 |
| 46 | 355.60 | 110.00 | 0.00 | 51.220 | 0.022 | 0.015 | 276.5 | 279.5 | 276.5 | 276.5 |

File : TAB326T 17-FEB-89
17-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG III(B)

C1 : X/D = 7
C2 : 4
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 99.628 kPa

Mean gauged plenum pressure : 51.856 kPa
RMS gauged plenum pressure : 0.046 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | 4.00 | -60.00 | 51.765 | 0.346 | 0.018 | 278.0 | 280.0 | 278.0 | 277.7 |
| 3 | 355.60 | 4.00 | -58.00 | 51.812 | 0.497 | 0.016 | 278.0 | 279.9 | 278.1 | 277.7 |
| 4 | 355.60 | 4.00 | -56.00 | 51.833 | 0.763 | 0.016 | 278.0 | 280.0 | 278.1 | 277.5 |
| 5 | 355.60 | 4.00 | -54.00 | 51.850 | 0.958 | 0.014 | 278.0 | 279.9 | 278.1 | 277.3 |
| 6 | 355.60 | 4.00 | -52.00 | 51.853 | 1.232 | 0.016 | 277.9 | 279.9 | 278.1 | 277.1 |
| 7 | 355.60 | 4.00 | -50.00 | 51.872 | 1.555 | 0.017 | 277.9 | 279.9 | 278.1 | 276.9 |
| 8 | 355.60 | 4.00 | -48.00 | 51.896 | 2.084 | 0.020 | 278.0 | 280.0 | 278.1 | 276.5 |
| 9 | 355.60 | 4.00 | -46.00 | 51.918 | 2.552 | 0.016 | 277.9 | 280.0 | 278.1 | 276.1 |
| 10 | 355.60 | 4.00 | -44.00 | 51.932 | 3.035 | 0.014 | 277.8 | 280.0 | 278.1 | 275.7 |
| 11 | 355.60 | 4.00 | -42.00 | 51.904 | 3.715 | 0.015 | 277.8 | 280.0 | 278.1 | 275.2 |
| 12 | 355.60 | 4.00 | -40.00 | 51.801 | 4.375 | 0.013 | 277.8 | 279.9 | 278.1 | 274.7 |
| 13 | 355.60 | 4.00 | -38.00 | 51.796 | 5.023 | 0.015 | 277.8 | 279.9 | 278.1 | 274.2 |
| 14 | 355.60 | 4.00 | -36.00 | 51.818 | 5.799 | 0.017 | 277.8 | 280.0 | 278.0 | 273.5 |
| 15 | 355.60 | 4.00 | -34.00 | 51.817 | 6.769 | 0.013 | 277.8 | 280.0 | 278.0 | 272.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | 4.00 | -32.00 | 51.829 | 7.540 | 0.013 | 277.8 | 280.0 | 278.1 | 272.4 |
| 17 | 355.60 | 4.00 | -30.00 | 51.828 | 8.587 | 0.014 | 277.9 | 280.0 | 278.1 | 271.6 |
| 18 | 355.60 | 4.00 | -28.00 | 51.833 | 9.598 | 0.014 | 277.9 | 280.0 | 278.1 | 270.9 |
| 19 | 355.60 | 4.00 | -26.00 | 51.830 | 10.584 | 0.014 | 277.8 | 280.0 | 278.1 | 270.2 |
| 20 | 355.60 | 4.00 | -24.00 | 51.814 | 11.529 | 0.017 | 277.8 | 280.0 | 278.1 | 269.5 |
| 21 | 355.60 | 4.00 | -22.00 | 51.826 | 12.429 | 0.014 | 277.9 | 280.0 | 278.0 | 268.8 |
| 22 | 355.60 | 4.00 | -20.00 | 51.837 | 13.455 | 0.014 | 277.9 | 279.9 | 278.0 | 268.1 |
| 23 | 355.60 | 4.00 | -18.00 | 51.831 | 14.342 | 0.014 | 277.9 | 279.9 | 278.0 | 267.5 |
| 24 | 355.60 | 4.00 | -16.00 | 51.834 | 15.248 | 0.019 | 277.9 | 279.9 | 278.0 | 266.9 |
| 25 | 355.60 | 4.00 | -14.00 | 51.836 | 15.831 | 0.017 | 277.8 | 279.9 | 278.0 | 266.5 |
| 26 | 355.60 | 4.00 | -12.00 | 51.849 | 16.307 | 0.014 | 277.7 | 279.9 | 278.0 | 266.2 |
| 27 | 355.60 | 4.00 | -10.00 | 51.844 | 16.703 | 0.015 | 277.7 | 279.9 | 278.0 | 265.9 |
| 28 | 355.60 | 4.00 | -8.00 | 51.852 | 16.787 | 0.017 | 277.6 | 279.9 | 277.9 | 265.8 |
| 29 | 355.60 | 4.00 | -6.00 | 51.869 | 16.818 | 0.016 | 277.7 | 279.9 | 277.9 | 265.8 |
| 30 | 355.60 | 4.00 | -4.00 | 51.852 | 16.704 | 0.013 | 277.7 | 279.9 | 277.9 | 265.8 |
| 31 | 355.60 | 4.00 | -2.00 | 51.872 | 16.110 | 0.014 | 277.7 | 279.8 | 277.9 | 266.2 |
| 32 | 355.60 | 4.00 | 0.00 | 51.875 | 15.690 | 0.014 | 277.6 | 279.8 | 277.9 | 266.5 |
| 33 | 355.60 | 4.00 | 2.00 | 51.907 | 15.252 | 0.013 | 277.6 | 279.8 | 277.8 | 266.7 |
| 34 | 355.60 | 4.00 | 4.00 | 51.921 | 14.391 | 0.014 | 277.6 | 279.8 | 277.9 | 267.4 |
| 35 | 355.60 | 4.00 | 6.00 | 51.917 | 13.401 | 0.013 | 277.7 | 279.8 | 277.9 | 268.0 |
| 36 | 355.60 | 4.00 | 8.00 | 51.917 | 12.428 | 0.015 | 277.6 | 279.8 | 277.9 | 268.7 |
| 37 | 355.60 | 4.00 | 10.00 | 51.956 | 11.689 | 0.015 | 277.6 | 279.8 | 277.9 | 269.2 |

File : TAB307T 7-FEB-89
7-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG III(B)

C1 : X/D = 7
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.612 kPa

Mean gauged plenum pressure : 51.321 kPa
RMS gauged plenum pressure : 0.206 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | -110.00 | 0.00 | 51.330 | 0.082 | 0.019 | 275.9 | 279.8 | 276.1 | 276.0 |
| 3 | 355.60 | -105.00 | 0.00 | 51.330 | 0.128 | 0.016 | 275.9 | 279.8 | 276.1 | 276.0 |
| 4 | 355.60 | -100.00 | 0.00 | 51.335 | 0.221 | 0.013 | 276.1 | 279.8 | 276.1 | 275.9 |
| 5 | 355.60 | -95.00 | 0.00 | 51.322 | 0.344 | 0.013 | 276.2 | 279.8 | 276.2 | 275.9 |
| 6 | 355.60 | -90.00 | 0.00 | 51.187 | 0.926 | 0.013 | 276.2 | 279.8 | 276.3 | 275.6 |
| 7 | 355.60 | -85.00 | 0.00 | 51.191 | 1.379 | 0.018 | 276.1 | 279.7 | 276.2 | 275.1 |
| 8 | 355.60 | -80.00 | 0.00 | 51.359 | 2.073 | 0.017 | 276.1 | 279.7 | 276.2 | 274.6 |
| 9 | 355.60 | -75.00 | 0.00 | 51.239 | 2.799 | 0.014 | 276.1 | 279.7 | 276.2 | 274.0 |
| 10 | 355.60 | -70.00 | 0.00 | 51.425 | 3.935 | 0.013 | 276.1 | 279.7 | 276.2 | 273.1 |
| 11 | 355.60 | -65.00 | 0.00 | 51.522 | 4.646 | 0.015 | 276.2 | 279.7 | 276.2 | 272.6 |
| 12 | 355.60 | -60.00 | 0.00 | 51.568 | 6.118 | 0.014 | 276.1 | 279.8 | 276.2 | 271.5 |
| 13 | 355.60 | -55.00 | 0.00 | 51.351 | 7.592 | 0.015 | 276.1 | 279.8 | 276.2 | 270.4 |
| 14 | 355.60 | -50.00 | 0.00 | 51.262 | 9.809 | 0.017 | 276.1 | 279.8 | 276.2 | 268.8 |
| 15 | 355.60 | -45.00 | 0.00 | 51.277 | 11.981 | 0.017 | 276.2 | 279.7 | 276.3 | 267.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | -40.00 | 0.00 | 51.176 | 14.521 | 0.018 | 276.1 | 279.7 | 276.2 | 265.5 |
| 17 | 355.60 | -35.00 | 0.00 | 51.168 | 17.220 | 0.013 | 276.1 | 279.7 | 276.3 | 263.9 |
| 18 | 355.60 | -30.00 | 0.00 | 51.436 | 19.871 | 0.013 | 276.1 | 279.6 | 276.2 | 262.1 |
| 19 | 355.60 | -25.00 | 0.00 | 51.336 | 20.693 | 0.013 | 276.1 | 279.6 | 276.3 | 261.6 |
| 20 | 355.60 | -20.00 | 0.00 | 51.192 | 19.922 | 0.013 | 276.1 | 279.6 | 276.2 | 262.0 |
| 21 | 355.60 | -15.00 | 0.00 | 51.407 | 18.273 | 0.013 | 276.1 | 279.6 | 276.3 | 263.2 |
| 22 | 355.60 | -10.00 | 0.00 | 51.520 | 16.544 | 0.015 | 276.1 | 279.7 | 276.3 | 264.3 |
| 23 | 355.60 | -5.00 | 0.00 | 51.322 | 15.367 | 0.013 | 276.1 | 279.7 | 276.3 | 265.1 |
| 24 | 355.60 | 0.00 | 0.00 | 51.359 | 15.407 | 0.013 | 276.1 | 279.7 | 276.3 | 265.0 |
| 25 | 355.60 | 5.00 | 0.00 | 51.208 | 16.824 | 0.014 | 276.1 | 279.7 | 276.2 | 264.0 |
| 26 | 355.60 | 10.00 | 0.00 | 51.296 | 19.495 | 0.013 | 276.2 | 279.7 | 276.3 | 262.4 |
| 27 | 355.60 | 15.00 | 0.00 | 51.147 | 22.042 | 0.017 | 276.1 | 279.7 | 276.2 | 260.7 |
| 28 | 355.60 | 20.00 | 0.00 | 51.258 | 23.005 | 0.013 | 276.1 | 279.6 | 276.2 | 260.1 |
| 29 | 355.60 | 25.00 | 0.00 | 51.184 | 21.272 | 0.016 | 276.1 | 279.6 | 276.2 | 261.2 |
| 30 | 355.60 | 30.00 | 0.00 | 51.218 | 18.514 | 0.014 | 276.1 | 279.6 | 276.2 | 262.9 |
| 31 | 355.60 | 35.00 | 0.00 | 51.275 | 14.281 | 0.013 | 276.2 | 279.6 | 276.2 | 265.7 |
| 32 | 355.60 | 40.00 | 0.00 | 51.410 | 10.625 | 0.016 | 276.1 | 279.6 | 276.2 | 268.2 |
| 33 | 355.60 | 45.00 | 0.00 | 51.500 | 7.886 | 0.014 | 276.1 | 279.8 | 276.2 | 270.2 |
| 34 | 355.60 | 50.00 | 0.00 | 51.317 | 5.534 | 0.013 | 276.1 | 279.8 | 276.2 | 271.9 |
| 35 | 355.60 | 55.00 | 0.00 | 51.284 | 3.870 | 0.013 | 276.1 | 279.8 | 276.2 | 273.2 |
| 36 | 355.60 | 60.00 | 0.00 | 51.419 | 2.546 | 0.014 | 276.1 | 279.8 | 276.2 | 274.2 |
| 37 | 355.60 | 65.00 | 0.00 | 51.392 | 1.778 | 0.017 | 276.0 | 279.8 | 276.2 | 274.8 |
| 38 | 355.60 | 70.00 | 0.00 | 51.238 | 0.892 | 0.013 | 276.0 | 279.7 | 276.1 | 275.4 |
| 39 | 355.60 | 75.00 | 0.00 | 51.231 | 1.118 | 0.013 | 276.1 | 279.6 | 276.1 | 275.2 |
| 40 | 355.60 | 80.00 | 0.00 | 51.053 | 0.675 | 0.019 | 275.9 | 279.6 | 276.1 | 275.6 |
| 41 | 355.60 | 85.00 | 0.00 | 51.199 | 0.515 | 0.015 | 275.9 | 279.6 | 276.1 | 275.7 |
| 42 | 355.60 | 90.00 | 0.00 | 51.442 | 0.232 | 0.017 | 275.9 | 279.6 | 276.1 | 275.9 |
| 43 | 355.60 | 95.00 | 0.00 | 51.312 | 0.101 | 0.016 | 276.0 | 279.7 | 276.1 | 276.0 |
| 44 | 355.60 | 100.00 | 0.00 | 51.370 | 0.028 | 0.013 | 276.0 | 279.8 | 276.1 | 276.1 |
| 45 | 355.60 | 105.00 | 0.00 | 51.305 | 0.012 | 0.013 | 276.0 | 279.8 | 276.1 | 276.1 |
| 46 | 355.60 | 110.00 | 0.00 | 51.136 | 0.012 | 0.015 | 276.0 | 279.8 | 276.1 | 276.1 |

File : TAB322T

15-FEB-89
23-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG III(B)

C1 : X/D = 5
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 99.018 kPa

Mean gauged plenum pressure : 51.755 kPa
RMS gauged plenum pressure : 0.132 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | 0.00 | 51.730 | 0.015 | 0.012 | 298.3 | 283.1 | 297.3 | 297.3 |
| 3 | 254.00 | -96.00 | 0.00 | 51.777 | 0.019 | 0.012 | 298.4 | 283.1 | 297.5 | 297.5 |
| 4 | 254.00 | -92.00 | 0.00 | 51.747 | 0.115 | 0.012 | 298.1 | 283.0 | 297.5 | 297.4 |
| 5 | 254.00 | -88.00 | 0.00 | 51.766 | 0.380 | 0.015 | 297.8 | 282.9 | 297.4 | 297.1 |
| 6 | 254.00 | -84.00 | 0.00 | 51.709 | 0.624 | 0.013 | 297.6 | 282.8 | 297.4 | 296.9 |
| 7 | 254.00 | -80.00 | 0.00 | 51.667 | 1.325 | 0.013 | 297.6 | 282.8 | 297.3 | 296.2 |
| 8 | 254.00 | -76.00 | 0.00 | 51.612 | 1.922 | 0.012 | 297.6 | 282.8 | 297.2 | 295.6 |
| 9 | 254.00 | -72.00 | 0.00 | 51.596 | 2.993 | 0.012 | 297.9 | 282.8 | 297.3 | 294.8 |
| 10 | 254.00 | -68.00 | 0.00 | 51.725 | 3.854 | 0.012 | 298.0 | 282.8 | 297.4 | 294.2 |
| 11 | 254.00 | -64.00 | 0.00 | 51.664 | 5.172 | 0.012 | 298.2 | 282.8 | 297.5 | 293.2 |
| 12 | 254.00 | -60.00 | 0.00 | 51.612 | 6.821 | 0.013 | 298.0 | 282.8 | 297.5 | 291.9 |
| 13 | 254.00 | -56.00 | 0.00 | 51.563 | 8.772 | 0.014 | 297.9 | 282.8 | 297.4 | 290.3 |
| 14 | 254.00 | -52.00 | 0.00 | 51.635 | 10.715 | 0.012 | 298.2 | 282.8 | 297.5 | 288.9 |
| 15 | 254.00 | -48.00 | 0.00 | 51.614 | 13.551 | 0.012 | 298.3 | 282.9 | 297.6 | 286.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -44.00 | 0.00 | 51.585 | 16.751 | 0.012 | 298.4 | 282.8 | 297.7 | 284.7 |
| 17 | 254.00 | -40.00 | 0.00 | 51.710 | 20.642 | 0.012 | 298.3 | 282.9 | 297.7 | 282.0 |
| 18 | 254.00 | -36.00 | 0.00 | 51.641 | 24.433 | 0.012 | 298.0 | 282.8 | 297.6 | 279.4 |
| 19 | 254.00 | -32.00 | 0.00 | 51.656 | 28.170 | 0.015 | 297.9 | 282.7 | 297.5 | 276.9 |
| 20 | 254.00 | -28.00 | 0.00 | 51.659 | 31.931 | 0.012 | 298.1 | 282.7 | 297.5 | 274.6 |
| 21 | 254.00 | -24.00 | 0.00 | 51.729 | 35.148 | 0.012 | 298.3 | 282.7 | 297.5 | 272.7 |
| 22 | 254.00 | -20.00 | 0.00 | 51.741 | 36.290 | 0.012 | 298.6 | 282.7 | 297.6 | 272.1 |
| 23 | 254.00 | -16.00 | 0.00 | 51.817 | 35.543 | 0.012 | 298.0 | 282.7 | 297.6 | 272.6 |
| 24 | 254.00 | -12.00 | 0.00 | 51.909 | 31.336 | 0.012 | 298.2 | 282.7 | 297.5 | 275.0 |
| 25 | 254.00 | -8.00 | 0.00 | 52.026 | 26.603 | 0.012 | 298.2 | 282.7 | 297.6 | 278.0 |
| 26 | 254.00 | -4.00 | 0.00 | 51.997 | 21.253 | 0.012 | 298.2 | 282.7 | 297.5 | 281.4 |
| 27 | 254.00 | 0.00 | 0.00 | 52.059 | 18.670 | 0.012 | 298.5 | 282.7 | 297.5 | 283.2 |
| 28 | 254.00 | 4.00 | 0.00 | 51.993 | 17.423 | 0.012 | 298.4 | 282.6 | 297.5 | 284.0 |
| 29 | 254.00 | 8.00 | 0.00 | 51.847 | 19.142 | 0.013 | 298.1 | 282.7 | 297.4 | 282.7 |
| 30 | 254.00 | 12.00 | 0.00 | 51.882 | 22.976 | 0.013 | 298.3 | 282.7 | 297.3 | 280.1 |
| 31 | 254.00 | 16.00 | 0.00 | 51.873 | 28.176 | 0.014 | 298.1 | 282.6 | 297.3 | 276.7 |
| 32 | 254.00 | 20.00 | 0.00 | 51.902 | 33.738 | 0.013 | 297.9 | 282.6 | 297.3 | 273.4 |
| 33 | 254.00 | 24.00 | 0.00 | 51.873 | 37.154 | 0.013 | 297.7 | 282.6 | 297.3 | 271.4 |
| 34 | 254.00 | 28.00 | 0.00 | 51.793 | 36.548 | 0.012 | 297.8 | 282.7 | 297.2 | 271.6 |
| 35 | 254.00 | 32.00 | 0.00 | 51.717 | 33.132 | 0.012 | 297.7 | 282.6 | 297.3 | 273.7 |
| 36 | 254.00 | 36.00 | 0.00 | 51.695 | 26.949 | 0.013 | 297.5 | 282.5 | 297.2 | 277.4 |
| 37 | 254.00 | 40.00 | 0.00 | 51.655 | 21.065 | 0.013 | 297.6 | 282.5 | 297.2 | 281.2 |
| 38 | 254.00 | 44.00 | 0.00 | 51.660 | 16.478 | 0.013 | 297.6 | 282.5 | 297.2 | 284.4 |
| 39 | 254.00 | 48.00 | 0.00 | 51.651 | 12.293 | 0.014 | 297.5 | 282.4 | 297.1 | 287.3 |
| 40 | 254.00 | 52.00 | 0.00 | 51.642 | 10.169 | 0.013 | 297.5 | 282.4 | 297.1 | 288.9 |
| 41 | 254.00 | 56.00 | 0.00 | 51.644 | 7.979 | 0.020 | 297.4 | 282.4 | 297.1 | 290.6 |
| 42 | 254.00 | 60.00 | 0.00 | 51.670 | 6.443 | 0.016 | 297.4 | 282.4 | 297.0 | 291.7 |
| 43 | 254.00 | 64.00 | 0.00 | 51.680 | 5.306 | 0.020 | 297.3 | 282.5 | 297.0 | 292.6 |
| 44 | 254.00 | 68.00 | 0.00 | 51.666 | 3.893 | 0.016 | 297.4 | 282.4 | 297.0 | 293.7 |
| 45 | 254.00 | 72.00 | 0.00 | 51.672 | 3.487 | 0.021 | 297.4 | 282.3 | 297.0 | 294.1 |
| 46 | 254.00 | 76.00 | 0.00 | 51.710 | 2.368 | 0.022 | 297.3 | 282.3 | 297.0 | 295.0 |
| 47 | 254.00 | 80.00 | 0.00 | 51.727 | 1.792 | 0.021 | 297.3 | 282.3 | 296.9 | 295.4 |
| 48 | 254.00 | 84.00 | 0.00 | 51.764 | 0.988 | 0.020 | 297.6 | 282.4 | 297.0 | 296.2 |
| 49 | 254.00 | 88.00 | 0.00 | 51.794 | 0.533 | 0.015 | 298.2 | 282.4 | 297.0 | 296.5 |
| 50 | 254.00 | 92.00 | 0.00 | 51.848 | 0.263 | 0.026 | 298.3 | 282.4 | 297.1 | 296.9 |
| 51 | 254.00 | 96.00 | 0.00 | 51.917 | 0.062 | 0.025 | 298.5 | 282.4 | 297.1 | 297.0 |
| 52 | 254.00 | 100.00 | 0.00 | 51.999 | 0.029 | 0.019 | 298.4 | 282.4 | 297.2 | 297.2 |

File : TAB323T 15-FEB-89
15-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG III(B)

C1 : X/D = 5
C2 : ZERO
C3 : VERTICAL'
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.984 kPa

Mean gauged plenum pressure : 51.760 kPa
RMS gauged plenum pressure : 0.131 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | 0.00 | -40.00 | 51.855 | 1.558 | 0.014 | 298.3 | 282.7 | 297.9 | 296.6 |
| 3 | 254.00 | 0.00 | -39.00 | 51.823 | 1.812 | 0.013 | 298.3 | 282.7 | 298.0 | 296.5 |
| 4 | 254.00 | 0.00 | -38.00 | 51.816 | 2.168 | 0.013 | 298.5 | 282.7 | 298.0 | 296.2 |
| 5 | 254.00 | 0.00 | -37.00 | 51.776 | 2.494 | 0.013 | 298.5 | 282.8 | 298.0 | 295.9 |
| 6 | 254.00 | 0.00 | -36.00 | 51.722 | 2.963 | 0.014 | 298.5 | 282.7 | 298.0 | 295.5 |
| 7 | 254.00 | 0.00 | -35.00 | 51.675 | 3.463 | 0.012 | 298.6 | 282.7 | 298.0 | 295.1 |
| 8 | 254.00 | 0.00 | -34.00 | 51.671 | 4.069 | 0.013 | 298.8 | 282.6 | 298.1 | 294.7 |
| 9 | 254.00 | 0.00 | -33.00 | 51.660 | 4.552 | 0.013 | 298.7 | 282.6 | 298.1 | 294.3 |
| 10 | 254.00 | 0.00 | -32.00 | 51.669 | 5.240 | 0.014 | 298.4 | 282.7 | 298.1 | 293.7 |
| 11 | 254.00 | 0.00 | -31.00 | 51.667 | 5.783 | 0.012 | 298.6 | 282.7 | 298.1 | 293.3 |
| 12 | 254.00 | 0.00 | -30.00 | 51.687 | 6.599 | 0.013 | 298.6 | 282.7 | 298.1 | 292.6 |
| 13 | 254.00 | 0.00 | -29.00 | 51.682 | 7.241 | 0.013 | 298.7 | 282.7 | 298.1 | 292.1 |
| 14 | 254.00 | 0.00 | -28.00 | 51.719 | 8.138 | 0.015 | 298.5 | 282.7 | 298.1 | 291.4 |
| 15 | 254.00 | 0.00 | -27.00 | 51.734 | 8.811 | 0.014 | 298.5 | 282.8 | 298.0 | 290.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | 0.00 | -26.00 | 51.766 | 9.717 | 0.012 | 298.7 | 282.8 | 298.0 | 290.1 |
| 17 | 254.00 | 0.00 | -25.00 | 51.828 | 10.610 | 0.012 | 299.1 | 282.8 | 298.0 | 289.4 |
| 18 | 254.00 | 0.00 | -24.00 | 51.869 | 11.638 | 0.012 | 298.9 | 282.8 | 298.0 | 288.7 |
| 19 | 254.00 | 0.00 | -23.00 | 51.875 | 12.398 | 0.013 | 299.0 | 282.8 | 298.1 | 288.2 |
| 20 | 254.00 | 0.00 | -22.00 | 51.854 | 13.350 | 0.014 | 299.4 | 282.8 | 298.1 | 287.5 |
| 21 | 254.00 | 0.00 | -21.00 | 51.863 | 14.211 | 0.013 | 299.5 | 282.7 | 298.1 | 286.9 |
| 22 | 254.00 | 0.00 | -20.00 | 51.862 | 15.440 | 0.012 | 299.6 | 282.7 | 298.1 | 286.0 |
| 23 | 254.00 | 0.00 | -19.00 | 51.819 | 16.096 | 0.013 | 299.5 | 282.7 | 298.2 | 285.6 |
| 24 | 254.00 | 0.00 | -18.00 | 51.818 | 17.099 | 0.013 | 299.2 | 282.7 | 298.2 | 284.9 |
| 25 | 254.00 | 0.00 | -17.00 | 51.736 | 17.893 | 0.012 | 299.2 | 282.7 | 298.1 | 284.3 |
| 26 | 254.00 | 0.00 | -16.00 | 51.658 | 18.627 | 0.015 | 298.8 | 282.7 | 298.1 | 283.8 |
| 27 | 254.00 | 0.00 | -15.00 | 51.603 | 19.324 | 0.013 | 298.6 | 282.8 | 298.1 | 283.3 |
| 28 | 254.00 | 0.00 | -14.00 | 51.387 | 19.917 | 0.013 | 298.7 | 282.8 | 298.1 | 282.9 |
| 29 | 254.00 | 0.00 | -13.00 | 51.802 | 20.578 | 0.013 | 298.7 | 282.8 | 298.2 | 282.5 |
| 30 | 254.00 | 0.00 | -12.00 | 51.916 | 21.035 | 0.013 | 298.7 | 282.7 | 298.1 | 282.1 |
| 31 | 254.00 | 0.00 | -11.00 | 51.903 | 21.265 | 0.014 | 298.7 | 282.7 | 298.1 | 282.0 |
| 32 | 254.00 | 0.00 | -10.00 | 51.914 | 21.413 | 0.013 | 298.9 | 282.7 | 298.2 | 281.9 |
| 33 | 254.00 | 0.00 | -9.00 | 51.922 | 21.458 | 0.013 | 298.9 | 282.7 | 298.3 | 282.0 |
| 34 | 254.00 | 0.00 | -8.00 | 51.914 | 21.330 | 0.017 | 298.8 | 282.7 | 298.3 | 282.1 |
| 35 | 254.00 | 0.00 | -7.00 | 51.842 | 21.126 | 0.014 | 298.9 | 282.7 | 298.3 | 282.2 |
| 36 | 254.00 | 0.00 | -6.00 | 51.809 | 20.843 | 0.012 | 299.0 | 282.6 | 298.3 | 282.4 |
| 37 | 254.00 | 0.00 | -5.00 | 51.783 | 20.449 | 0.013 | 298.9 | 282.6 | 298.4 | 282.8 |
| 38 | 254.00 | 0.00 | -4.00 | 51.691 | 19.891 | 0.014 | 298.7 | 282.7 | 298.4 | 283.2 |
| 39 | 254.00 | 0.00 | -3.00 | 51.647 | 19.577 | 0.013 | 298.8 | 282.7 | 298.4 | 283.4 |
| 40 | 254.00 | 0.00 | -2.00 | 51.553 | 19.078 | 0.013 | 298.9 | 282.7 | 298.4 | 283.7 |
| 41 | 254.00 | 0.00 | -1.00 | 51.498 | 18.501 | 0.015 | 298.6 | 282.7 | 298.3 | 284.0 |
| 42 | 254.00 | 0.00 | 0.00 | 51.435 | 18.081 | 0.015 | 298.7 | 282.8 | 298.3 | 284.3 |
| 43 | 254.00 | 0.00 | 1.00 | 51.786 | 17.413 | 0.013 | 298.9 | 282.8 | 298.3 | 284.8 |
| 44 | 254.00 | 0.00 | 2.00 | 51.840 | 16.744 | 0.014 | 299.3 | 282.8 | 298.3 | 285.3 |
| 45 | 254.00 | 0.00 | 3.00 | 51.879 | 16.377 | 0.014 | 299.4 | 282.8 | 298.5 | 285.7 |
| 46 | 254.00 | 0.00 | 4.00 | 51.937 | 15.723 | 0.015 | 299.3 | 282.8 | 298.4 | 286.1 |
| 47 | 254.00 | 0.00 | 5.00 | 51.966 | 15.073 | 0.016 | 299.6 | 282.8 | 298.4 | 286.5 |
| 48 | 254.00 | 0.00 | 6.00 | 51.894 | 14.401 | 0.013 | 299.8 | 282.8 | 298.5 | 287.1 |
| 49 | 254.00 | 0.00 | 7.00 | 51.871 | 13.589 | 0.017 | 299.9 | 282.9 | 298.5 | 287.7 |
| 50 | 254.00 | 0.00 | 8.00 | 51.830 | 13.023 | 0.018 | 299.5 | 282.9 | 298.4 | 288.0 |
| 51 | 254.00 | 0.00 | 9.00 | 51.741 | 12.360 | 0.016 | 299.5 | 282.9 | 298.4 | 288.5 |
| 52 | 254.00 | 0.00 | 10.00 | 51.683 | 11.792 | 0.014 | 299.4 | 282.9 | 298.4 | 288.9 |

File : TAB309T 7-FEB-89
7-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG III(B)

C1 : X/D = 5
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.510 kPa

Mean gauged plenum pressure : 51.210 kPa
RMS gauged plenum pressure : 0.179 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | -0.60 | 51.042 | 0.014 | 0.013 | 278.9 | 280.4 | 278.0 | 278.0 |
| 3 | 254.00 | -95.00 | -0.60 | 51.154 | 0.020 | 0.012 | 278.9 | 280.4 | 278.2 | 278.2 |
| 4 | 254.00 | -90.00 | -0.60 | 51.233 | 0.172 | 0.013 | 278.8 | 280.4 | 278.2 | 278.1 |
| 5 | 254.00 | -85.00 | -0.60 | 51.097 | 0.568 | 0.012 | 279.0 | 280.3 | 278.3 | 277.8 |
| 6 | 254.00 | -80.00 | -0.60 | 51.139 | 1.211 | 0.012 | 278.7 | 280.3 | 278.2 | 277.2 |
| 7 | 254.00 | -75.00 | -0.60 | 51.209 | 1.580 | 0.013 | 278.5 | 280.2 | 278.1 | 276.8 |
| 8 | 254.00 | -70.00 | -0.60 | 51.328 | 2.617 | 0.013 | 278.5 | 280.2 | 278.1 | 276.0 |
| 9 | 254.00 | -65.00 | -0.60 | 51.445 | 4.113 | 0.015 | 278.3 | 280.3 | 277.9 | 274.7 |
| 10 | 254.00 | -60.00 | -0.60 | 51.590 | 5.802 | 0.013 | 278.5 | 280.4 | 278.0 | 273.5 |
| 11 | 254.00 | -55.00 | -0.60 | 51.444 | 7.979 | 0.012 | 278.6 | 280.5 | 278.0 | 271.9 |
| 12 | 254.00 | -50.00 | -0.60 | 51.300 | 10.543 | 0.013 | 279.1 | 280.4 | 278.2 | 270.2 |
| 13 | 254.00 | -45.00 | -0.60 | 51.128 | 14.264 | 0.013 | 279.0 | 280.5 | 278.3 | 267.7 |
| 14 | 254.00 | -40.00 | -0.60 | 51.177 | 19.525 | 0.013 | 279.0 | 280.4 | 278.4 | 264.4 |
| 15 | 254.00 | -35.00 | -0.60 | 51.074 | 24.922 | 0.012 | 279.0 | 280.4 | 278.4 | 261.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -30.00 | -0.60 | 51.113 | 30.002 | 0.013 | 279.1 | 280.4 | 278.5 | 258.1 |
| 17 | 254.00 | -25.00 | -0.60 | 51.199 | 32.648 | 0.013 | 279.2 | 280.3 | 278.5 | 256.6 |
| 18 | 254.00 | -20.00 | -0.60 | 51.134 | 31.314 | 0.013 | 279.2 | 280.3 | 278.6 | 257.4 |
| 19 | 254.00 | -15.00 | -0.60 | 51.062 | 25.701 | 0.014 | 279.1 | 280.4 | 278.6 | 260.7 |
| 20 | 254.00 | -10.00 | -0.60 | 51.368 | 20.885 | 0.013 | 279.2 | 280.4 | 278.6 | 263.7 |
| 21 | 254.00 | -5.00 | -0.60 | 51.266 | 17.869 | 0.013 | 279.2 | 280.5 | 278.6 | 265.6 |
| 22 | 254.00 | 0.00 | -0.60 | 51.460 | 18.772 | 0.013 | 279.3 | 280.5 | 278.6 | 265.0 |
| 23 | 254.00 | 5.00 | -0.60 | 50.970 | 22.697 | 0.013 | 279.2 | 280.5 | 278.6 | 262.5 |
| 24 | 254.00 | 10.00 | -0.60 | 51.161 | 28.882 | 0.012 | 279.4 | 280.5 | 278.6 | 258.8 |
| 25 | 254.00 | 15.00 | -0.60 | 51.091 | 34.140 | 0.012 | 279.6 | 280.5 | 278.7 | 255.9 |
| 26 | 254.00 | 20.00 | -0.60 | 51.019 | 34.348 | 0.014 | 279.7 | 280.4 | 278.8 | 255.9 |
| 27 | 254.00 | 25.00 | -0.60 | 51.103 | 29.070 | 0.013 | 279.6 | 280.4 | 278.8 | 258.9 |
| 28 | 254.00 | 30.00 | -0.60 | 51.212 | 21.035 | 0.013 | 279.6 | 280.4 | 278.7 | 263.7 |
| 29 | 254.00 | 35.00 | -0.60 | 51.108 | 14.151 | 0.013 | 279.6 | 280.4 | 278.8 | 268.3 |
| 30 | 254.00 | 40.00 | -0.60 | 51.303 | 8.489 | 0.012 | 279.5 | 280.4 | 278.7 | 272.2 |
| 31 | 254.00 | 45.00 | -0.60 | 51.213 | 5.381 | 0.013 | 279.4 | 280.5 | 278.7 | 274.5 |
| 32 | 254.00 | 50.00 | -0.60 | 51.251 | 3.236 | 0.014 | 279.2 | 280.5 | 278.6 | 276.0 |
| 33 | 254.00 | 55.00 | -0.60 | 51.307 | 2.558 | 0.017 | 279.1 | 280.5 | 278.5 | 276.5 |
| 34 | 254.00 | 60.00 | -0.60 | 51.219 | 1.784 | 0.012 | 279.3 | 280.5 | 278.6 | 277.2 |
| 35 | 254.00 | 65.00 | -0.60 | 51.029 | 1.468 | 0.012 | 279.5 | 280.4 | 278.6 | 277.4 |
| 36 | 254.00 | 70.00 | -0.60 | 51.084 | 0.949 | 0.013 | 279.6 | 280.4 | 278.7 | 277.9 |
| 37 | 254.00 | 75.00 | -0.60 | 51.004 | 0.475 | 0.013 | 279.5 | 280.3 | 278.7 | 278.3 |
| 38 | 254.00 | 80.00 | -0.60 | 51.126 | 0.138 | 0.014 | 279.7 | 280.3 | 278.8 | 278.7 |
| 39 | 254.00 | 85.00 | -0.60 | 51.110 | 0.075 | 0.013 | 279.7 | 280.3 | 278.8 | 278.7 |
| 40 | 254.00 | 90.00 | -0.60 | 51.762 | 0.024 | 0.015 | 279.5 | 280.4 | 278.8 | 278.8 |
| 41 | 254.00 | 95.00 | -0.60 | 51.231 | 0.013 | 0.016 | 279.5 | 280.5 | 278.8 | 278.8 |
| 42 | 254.00 | 100.00 | -0.60 | 51.319 | 0.012 | 0.013 | 279.7 | 280.5 | 278.8 | 278.8 |

File : TAB319T 14-FEB-89
14-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG III(B)

C1 : X/D = 2
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.815 kPa

Mean gauged plenum pressure : 51.621 kPa
RMS gauged plenum pressure : 0.133 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 101.60 | -75.00 | 0.00 | 51.453 | 0.009 | 0.013 | 296.5 | 282.5 | 296.2 | 296.2 |
| 3 | 101.60 | -72.00 | 0.00 | 51.386 | 0.093 | 0.015 | 296.5 | 282.4 | 296.2 | 296.1 |
| 4 | 101.60 | -69.00 | 0.00 | 51.638 | 1.470 | 0.013 | 296.4 | 282.3 | 296.2 | 295.0 |
| 5 | 101.60 | -66.00 | 0.00 | 51.514 | 4.104 | 0.018 | 296.3 | 282.3 | 296.1 | 292.7 |
| 6 | 101.60 | -63.00 | 0.00 | 51.493 | 8.179 | 0.014 | 296.2 | 282.3 | 296.0 | 289.3 |
| 7 | 101.60 | -60.00 | 0.00 | 51.412 | 12.006 | 0.013 | 295.9 | 282.2 | 295.9 | 286.4 |
| 8 | 101.60 | -57.00 | 0.00 | 51.580 | 15.034 | 0.014 | 295.9 | 282.2 | 295.8 | 284.1 |
| 9 | 101.60 | -54.00 | 0.00 | 51.494 | 17.276 | 0.015 | 295.5 | 282.2 | 295.7 | 282.4 |
| 10 | 101.60 | -51.00 | 0.00 | 51.568 | 21.027 | 0.013 | 295.7 | 282.2 | 295.7 | 279.8 |
| 11 | 101.60 | -48.00 | 0.00 | 51.713 | 26.689 | 0.013 | 295.8 | 282.2 | 295.7 | 276.1 |
| 12 | 101.60 | -45.00 | 0.00 | 51.641 | 36.118 | 0.012 | 296.4 | 282.2 | 295.7 | 270.5 |
| 13 | 101.60 | -42.00 | 0.00 | 51.672 | 44.746 | 0.013 | 296.4 | 282.1 | 295.6 | 265.6 |
| 14 | 101.60 | -39.00 | 0.00 | 51.826 | 49.900 | 0.013 | 296.2 | 282.1 | 295.6 | 262.9 |
| 15 | 101.60 | -36.00 | 0.00 | 51.739 | 51.112 | 0.017 | 296.0 | 282.1 | 295.6 | 262.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 101.60 | -33.00 | 0.00 | 51.696 | 51.334 | 0.014 | 296.2 | 282.1 | 295.6 | 262.2 |
| 17 | 101.60 | -30.00 | 0.00 | 51.731 | 51.539 | 0.013 | 296.4 | 282.1 | 295.6 | 262.1 |
| 18 | 101.60 | -27.00 | 0.00 | 51.744 | 51.544 | 0.016 | 296.3 | 282.1 | 295.6 | 262.1 |
| 19 | 101.60 | -24.00 | 0.00 | 51.632 | 51.431 | 0.016 | 296.4 | 282.0 | 295.5 | 262.1 |
| 20 | 101.60 | -21.00 | 0.00 | 51.548 | 51.412 | 0.014 | 296.4 | 282.0 | 295.5 | 262.1 |
| 21 | 101.60 | -18.00 | 0.00 | 51.419 | 51.358 | 0.015 | 296.1 | 282.1 | 295.5 | 262.1 |
| 22 | 101.60 | -15.00 | 0.00 | 51.674 | 51.663 | 0.018 | 295.9 | 282.1 | 295.5 | 262.0 |
| 23 | 101.60 | -12.00 | 0.00 | 51.560 | 51.336 | 0.016 | 296.0 | 282.1 | 295.5 | 262.1 |
| 24 | 101.60 | -9.00 | 0.00 | 51.482 | 48.551 | 0.019 | 295.9 | 282.1 | 295.5 | 263.5 |
| 25 | 101.60 | -6.00 | 0.00 | 51.555 | 40.682 | 0.017 | 295.9 | 282.1 | 295.5 | 267.7 |
| 26 | 101.60 | -3.00 | 0.00 | 51.555 | 30.270 | 0.017 | 296.0 | 282.0 | 295.5 | 273.7 |
| 27 | 101.60 | 0.00 | 0.00 | 51.618 | 24.966 | 0.022 | 295.8 | 282.1 | 295.5 | 277.0 |
| 28 | 101.60 | 3.00 | 0.00 | 51.612 | 25.569 | 0.022 | 295.7 | 282.1 | 295.5 | 276.7 |
| 29 | 101.60 | 6.00 | 0.00 | 51.745 | 32.289 | 0.019 | 295.8 | 282.1 | 295.5 | 272.5 |
| 30 | 101.60 | 9.00 | 0.00 | 51.862 | 41.958 | 0.019 | 296.1 | 282.3 | 295.6 | 267.1 |
| 31 | 101.60 | 12.00 | 0.00 | 52.073 | 50.128 | 0.018 | 296.2 | 282.3 | 295.7 | 262.9 |
| 32 | 101.60 | 15.00 | 0.00 | 51.564 | 51.419 | 0.021 | 296.0 | 282.4 | 295.7 | 262.3 |
| 33 | 101.60 | 18.00 | 0.00 | 51.670 | 51.663 | 0.017 | 296.2 | 282.4 | 295.7 | 262.1 |
| 34 | 101.60 | 21.00 | 0.00 | 51.640 | 51.616 | 0.018 | 296.3 | 282.3 | 295.7 | 262.2 |
| 35 | 101.60 | 24.00 | 0.00 | 51.609 | 51.543 | 0.020 | 296.1 | 282.3 | 295.7 | 262.2 |
| 36 | 101.60 | 27.00 | 0.00 | 51.497 | 51.397 | 0.023 | 296.0 | 282.3 | 295.7 | 262.3 |
| 37 | 101.60 | 30.00 | 0.00 | 51.585 | 51.451 | 0.016 | 295.9 | 282.2 | 295.6 | 262.2 |
| 38 | 101.60 | 33.00 | 0.00 | 51.496 | 50.973 | 0.015 | 296.0 | 282.2 | 295.7 | 262.5 |
| 39 | 101.60 | 36.00 | 0.00 | 51.614 | 49.630 | 0.015 | 296.2 | 282.2 | 295.7 | 263.2 |
| 40 | 101.60 | 39.00 | 0.00 | 51.562 | 47.593 | 0.014 | 296.9 | 282.3 | 295.8 | 264.3 |
| 41 | 101.60 | 42.00 | 0.00 | 51.505 | 43.093 | 0.021 | 296.4 | 282.3 | 295.8 | 266.7 |
| 42 | 101.60 | 45.00 | 0.00 | 51.627 | 36.514 | 0.015 | 296.6 | 282.3 | 295.8 | 270.3 |
| 43 | 101.60 | 48.00 | 0.00 | 51.600 | 27.489 | 0.019 | 296.0 | 282.2 | 295.7 | 275.6 |
| 44 | 101.60 | 51.00 | 0.00 | 51.594 | 20.078 | 0.016 | 295.8 | 282.2 | 295.6 | 280.4 |
| 45 | 101.60 | 54.00 | 0.00 | 51.628 | 15.053 | 0.015 | 296.1 | 282.2 | 295.5 | 283.8 |
| 46 | 101.60 | 57.00 | 0.00 | 51.834 | 12.038 | 0.015 | 296.1 | 282.2 | 295.4 | 285.8 |
| 47 | 101.60 | 60.00 | 0.00 | 51.733 | 9.751 | 0.013 | 296.0 | 282.1 | 295.3 | 287.5 |
| 48 | 101.60 | 63.00 | 0.00 | 51.723 | 7.117 | 0.013 | 296.2 | 282.1 | 295.3 | 289.5 |
| 49 | 101.60 | 66.00 | 0.00 | 51.826 | 4.456 | 0.017 | 295.9 | 282.1 | 295.3 | 291.6 |
| 50 | 101.60 | 69.00 | 0.00 | 51.707 | 2.056 | 0.020 | 295.6 | 282.1 | 295.2 | 293.5 |
| 51 | 101.60 | 72.00 | 0.00 | 51.588 | 0.447 | 0.015 | 295.6 | 282.0 | 295.2 | 294.8 |
| 52 | 101.60 | 75.00 | 0.00 | 51.533 | 0.015 | 0.013 | 295.8 | 282.0 | 295.2 | 295.2 |

File : TAB318T 14-FEB-89
14-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTAB
CONFIG III(B)

C1 : X/D = 2
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.883 kPa

Mean gauged plenum pressure : 51.596 kPa
RMS gauged plenum pressure : 0.147 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 101.60 | 0.00 | -20.00 | 51.512 | 3.433 | 0.012 | 296.5 | 283.7 | 295.3 | 292.4 |
| 3 | 101.60 | 0.00 | -19.50 | 51.352 | 3.727 | 0.012 | 296.5 | 283.5 | 295.3 | 292.2 |
| 4 | 101.60 | 0.00 | -19.00 | 51.476 | 4.413 | 0.011 | 296.8 | 283.3 | 295.4 | 291.7 |
| 5 | 101.60 | 0.00 | -18.50 | 51.284 | 5.297 | 0.011 | 296.9 | 283.1 | 295.4 | 291.0 |
| 6 | 101.60 | 0.00 | -18.00 | 51.478 | 6.331 | 0.012 | 296.5 | 283.0 | 295.5 | 290.3 |
| 7 | 101.60 | 0.00 | -17.50 | 51.682 | 7.330 | 0.012 | 296.4 | 282.9 | 295.5 | 289.5 |
| 8 | 101.60 | 0.00 | -17.00 | 51.675 | 8.485 | 0.012 | 296.2 | 282.9 | 295.5 | 288.6 |
| 9 | 101.60 | 0.00 | -16.50 | 51.725 | 9.698 | 0.012 | 296.3 | 282.9 | 295.5 | 287.7 |
| 10 | 101.60 | 0.00 | -16.00 | 51.724 | 11.329 | 0.012 | 296.4 | 282.9 | 295.6 | 286.6 |
| 11 | 101.60 | 0.00 | -15.50 | 51.817 | 12.938 | 0.012 | 296.3 | 282.9 | 295.7 | 285.5 |
| 12 | 101.60 | 0.00 | -15.00 | 51.446 | 14.557 | 0.012 | 296.2 | 282.8 | 295.6 | 284.2 |
| 13 | 101.60 | 0.00 | -14.50 | 51.556 | 16.466 | 0.012 | 296.2 | 282.8 | 295.6 | 282.9 |
| 14 | 101.60 | 0.00 | -14.00 | 51.438 | 18.607 | 0.012 | 296.2 | 282.7 | 295.7 | 281.5 |
| 15 | 101.60 | 0.00 | -13.50 | 51.562 | 20.709 | 0.012 | 296.2 | 282.7 | 295.7 | 280.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 101.60 | 0.00 | -13.00 | 51.691 | 23.148 | 0.012 | 296.2 | 282.6 | 295.6 | 278.3 |
| 17 | 101.60 | 0.00 | -12.50 | 51.432 | 25.323 | 0.012 | 296.4 | 282.6 | 295.6 | 276.9 |
| 18 | 101.60 | 0.00 | -12.00 | 51.428 | 28.097 | 0.012 | 296.3 | 282.6 | 295.6 | 275.2 |
| 19 | 101.60 | 0.00 | -11.50 | 51.470 | 30.535 | 0.013 | 296.2 | 282.7 | 295.7 | 273.8 |
| 20 | 101.60 | 0.00 | -11.00 | 51.608 | 33.166 | 0.013 | 296.0 | 282.6 | 295.6 | 272.1 |
| 21 | 101.60 | 0.00 | -10.50 | 51.741 | 35.570 | 0.012 | 296.1 | 282.7 | 295.6 | 270.7 |
| 22 | 101.60 | 0.00 | -10.00 | 51.733 | 37.945 | 0.012 | 296.3 | 282.7 | 295.7 | 269.4 |
| 23 | 101.60 | 0.00 | -9.50 | 51.675 | 39.860 | 0.013 | 296.3 | 282.7 | 295.7 | 268.4 |
| 24 | 101.60 | 0.00 | -9.00 | 51.843 | 42.013 | 0.012 | 296.3 | 282.7 | 295.8 | 267.3 |
| 25 | 101.60 | 0.00 | -8.50 | 51.764 | 43.584 | 0.013 | 296.2 | 282.7 | 295.8 | 266.4 |
| 26 | 101.60 | 0.00 | -8.00 | 51.559 | 44.853 | 0.015 | 296.2 | 282.8 | 295.8 | 265.8 |
| 27 | 101.60 | 0.00 | -7.50 | 51.694 | 45.829 | 0.012 | 296.8 | 282.7 | 295.8 | 265.2 |
| 28 | 101.60 | 0.00 | -7.00 | 51.464 | 46.059 | 0.016 | 296.9 | 282.6 | 295.8 | 265.1 |
| 29 | 101.60 | 0.00 | -6.50 | 51.384 | 46.162 | 0.015 | 296.8 | 282.6 | 295.9 | 265.2 |
| 30 | 101.60 | 0.00 | -6.00 | 51.428 | 45.751 | 0.016 | 296.2 | 282.5 | 295.8 | 265.3 |
| 31 | 101.60 | 0.00 | -5.50 | 51.582 | 45.183 | 0.014 | 296.1 | 282.5 | 295.7 | 265.5 |
| 32 | 101.60 | 0.00 | -5.00 | 51.539 | 44.292 | 0.018 | 296.3 | 282.6 | 295.7 | 266.0 |
| 33 | 101.60 | 0.00 | -4.50 | 51.497 | 42.803 | 0.012 | 296.7 | 282.5 | 295.7 | 266.8 |
| 34 | 101.60 | 0.00 | -4.00 | 51.611 | 41.353 | 0.013 | 297.1 | 282.5 | 295.8 | 267.6 |
| 35 | 101.60 | 0.00 | -3.50 | 51.609 | 39.702 | 0.016 | 297.1 | 282.5 | 295.8 | 268.6 |
| 36 | 101.60 | 0.00 | -3.00 | 51.720 | 37.944 | 0.014 | 297.5 | 282.6 | 296.0 | 269.7 |
| 37 | 101.60 | 0.00 | -2.50 | 51.755 | 35.849 | 0.017 | 297.4 | 282.6 | 296.0 | 270.9 |
| 38 | 101.60 | 0.00 | -2.00 | 51.667 | 33.880 | 0.018 | 297.2 | 282.6 | 296.0 | 272.1 |
| 39 | 101.60 | 0.00 | -1.50 | 51.783 | 31.760 | 0.015 | 297.2 | 282.6 | 296.1 | 273.4 |
| 40 | 101.60 | 0.00 | -1.00 | 51.651 | 29.460 | 0.023 | 296.8 | 282.6 | 296.2 | 274.9 |
| 41 | 101.60 | 0.00 | -0.50 | 51.654 | 27.278 | 0.022 | 296.7 | 282.6 | 296.2 | 276.2 |
| 42 | 101.60 | 0.00 | 0.00 | 51.534 | 25.326 | 0.023 | 296.3 | 282.5 | 296.1 | 277.4 |
| 43 | 101.60 | 0.00 | 0.50 | 51.526 | 23.567 | 0.019 | 296.3 | 282.5 | 296.0 | 278.4 |
| 44 | 101.60 | 0.00 | 1.00 | 51.557 | 21.798 | 0.018 | 296.2 | 282.5 | 295.9 | 279.5 |
| 45 | 101.60 | 0.00 | 1.50 | 51.552 | 20.196 | 0.015 | 296.2 | 282.5 | 295.9 | 280.6 |
| 46 | 101.60 | 0.00 | 2.00 | 51.475 | 18.483 | 0.018 | 296.4 | 282.5 | 295.9 | 281.7 |
| 47 | 101.60 | 0.00 | 2.50 | 51.685 | 17.043 | 0.015 | 296.5 | 282.5 | 295.9 | 282.7 |
| 48 | 101.60 | 0.00 | 3.00 | 51.577 | 15.680 | 0.015 | 296.8 | 282.5 | 296.0 | 283.8 |
| 49 | 101.60 | 0.00 | 3.50 | 51.483 | 14.249 | 0.020 | 296.8 | 282.5 | 296.1 | 284.9 |
| 50 | 101.60 | 0.00 | 4.00 | 51.577 | 13.168 | 0.020 | 297.0 | 282.5 | 296.1 | 285.7 |
| 51 | 101.60 | 0.00 | 4.50 | 51.803 | 12.135 | 0.017 | 297.0 | 282.5 | 296.1 | 286.5 |
| 52 | 101.60 | 0.00 | 5.00 | 51.840 | 11.051 | 0.020 | 297.1 | 282.5 | 296.2 | 287.4 |

File : TAB311T 8-FEB-89
8-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTDMN, -14 DEG
CONFIG III(B)

C1 : X/D = 2
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 99.221 kPa

Mean gauged plenum pressure : 51.605 kPa
RMS gauged plenum pressure : 0.203 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 101.60 | -75.00 | 0.00 | 51.539 | 0.008 | 0.013 | 277.0 | 279.3 | 276.3 | 276.3 |
| 3 | 101.60 | -72.00 | 0.00 | 51.378 | 0.008 | 0.012 | 277.0 | 279.4 | 276.3 | 276.3 |
| 4 | 101.60 | -69.00 | 0.00 | 51.705 | 0.040 | 0.012 | 277.0 | 279.4 | 276.3 | 276.3 |
| 5 | 101.60 | -66.00 | 0.00 | 51.617 | 0.087 | 0.012 | 277.1 | 279.3 | 276.3 | 276.2 |
| 6 | 101.60 | -63.00 | 0.00 | 51.516 | 0.074 | 0.012 | 277.3 | 279.3 | 276.4 | 276.3 |
| 7 | 101.60 | -60.00 | 0.00 | 51.664 | 0.360 | 0.012 | 277.4 | 279.4 | 276.4 | 276.1 |
| 8 | 101.60 | -57.00 | 0.00 | 51.512 | 1.105 | 0.013 | 277.4 | 279.4 | 276.5 | 275.6 |
| 9 | 101.60 | -54.00 | 0.00 | 52.073 | 3.454 | 0.012 | 277.3 | 279.4 | 276.5 | 273.8 |
| 10 | 101.60 | -51.00 | 0.00 | 51.563 | 8.028 | 0.012 | 277.5 | 279.5 | 276.5 | 270.4 |
| 11 | 101.60 | -48.00 | 0.00 | 51.549 | 12.884 | 0.012 | 277.5 | 279.5 | 276.6 | 267.1 |
| 12 | 101.60 | -45.00 | 0.00 | 51.672 | 19.774 | 0.013 | 277.4 | 279.5 | 276.6 | 262.6 |
| 13 | 101.60 | -42.00 | 0.00 | 51.504 | 25.911 | 0.012 | 277.4 | 279.4 | 276.6 | 258.8 |
| 14 | 101.60 | -39.00 | 0.00 | 51.529 | 32.840 | 0.012 | 277.3 | 279.5 | 276.6 | 254.9 |
| 15 | 101.60 | -36.00 | 0.00 | 51.485 | 38.869 | 0.012 | 277.3 | 279.4 | 276.5 | 251.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 101.60 | -33.00 | 0.00 | 51.661 | 43.049 | 0.012 | 277.3 | 279.4 | 276.5 | 249.4 |
| 17 | 101.60 | -30.00 | 0.00 | 51.330 | 45.940 | 0.012 | 277.2 | 279.4 | 276.5 | 247.9 |
| 18 | 101.60 | -27.00 | 0.00 | 51.603 | 47.851 | 0.012 | 277.2 | 279.4 | 276.5 | 247.0 |
| 19 | 101.60 | -24.00 | 0.00 | 51.455 | 49.498 | 0.012 | 277.1 | 279.4 | 276.5 | 246.2 |
| 20 | 101.60 | -21.00 | 0.00 | 51.698 | 50.270 | 0.012 | 277.4 | 279.4 | 276.5 | 245.9 |
| 21 | 101.60 | -18.00 | 0.00 | 51.514 | 47.704 | 0.012 | 277.3 | 279.4 | 276.5 | 247.1 |
| 22 | 101.60 | -15.00 | 0.00 | 51.741 | 39.530 | 0.012 | 277.4 | 279.5 | 276.6 | 251.3 |
| 23 | 101.60 | -12.00 | 0.00 | 51.517 | 29.672 | 0.013 | 277.3 | 279.5 | 276.6 | 256.6 |
| 24 | 101.60 | -9.00 | 0.00 | 51.612 | 22.224 | 0.013 | 277.3 | 279.4 | 276.5 | 261.0 |
| 25 | 101.60 | -6.00 | 0.00 | 51.495 | 20.483 | 0.013 | 277.2 | 279.4 | 276.6 | 262.1 |
| 26 | 101.60 | -3.00 | 0.00 | 51.450 | 24.839 | 0.012 | 277.2 | 279.4 | 276.6 | 259.5 |
| 27 | 101.60 | 0.00 | 0.00 | 51.671 | 35.248 | 0.014 | 277.1 | 279.4 | 276.5 | 253.4 |
| 28 | 101.60 | 3.00 | 0.00 | 51.382 | 45.733 | 0.013 | 277.1 | 279.4 | 276.5 | 248.0 |
| 29 | 101.60 | 6.00 | 0.00 | 51.562 | 51.022 | 0.014 | 277.2 | 279.3 | 276.5 | 245.5 |
| 30 | 101.60 | 9.00 | 0.00 | 51.782 | 51.841 | 0.012 | 277.4 | 279.4 | 276.5 | 245.1 |
| 31 | 101.60 | 12.00 | 0.00 | 51.893 | 51.711 | 0.013 | 277.5 | 279.4 | 276.6 | 245.3 |
| 32 | 101.60 | 15.00 | 0.00 | 51.717 | 50.981 | 0.014 | 277.6 | 279.5 | 276.7 | 245.7 |
| 33 | 101.60 | 18.00 | 0.00 | 51.650 | 50.367 | 0.014 | 277.7 | 279.5 | 276.7 | 246.0 |
| 34 | 101.60 | 21.00 | 0.00 | 51.916 | 49.912 | 0.014 | 277.6 | 279.5 | 276.7 | 246.2 |
| 35 | 101.60 | 24.00 | 0.00 | 51.913 | 48.250 | 0.015 | 277.4 | 279.4 | 276.7 | 247.0 |
| 36 | 101.60 | 27.00 | 0.00 | 51.620 | 39.905 | 0.016 | 277.2 | 279.4 | 276.7 | 251.2 |
| 37 | 101.60 | 30.00 | 0.00 | 51.512 | 26.664 | 0.013 | 277.2 | 279.4 | 276.6 | 258.4 |
| 38 | 101.60 | 33.00 | 0.00 | 51.661 | 15.717 | 0.014 | 277.2 | 279.4 | 276.6 | 265.2 |
| 39 | 101.60 | 36.00 | 0.00 | 51.516 | 7.853 | 0.014 | 277.2 | 279.3 | 276.6 | 270.6 |
| 40 | 101.60 | 39.00 | 0.00 | 51.458 | 3.457 | 0.014 | 277.4 | 279.3 | 276.6 | 273.9 |
| 41 | 101.60 | 42.00 | 0.00 | 51.628 | 1.378 | 0.016 | 277.3 | 279.4 | 276.5 | 275.4 |
| 42 | 101.60 | 45.00 | 0.00 | 51.753 | 0.552 | 0.013 | 277.4 | 279.3 | 276.5 | 276.1 |
| 43 | 101.60 | 48.00 | 0.00 | 51.650 | 0.513 | 0.014 | 277.2 | 279.3 | 276.5 | 276.1 |
| 44 | 101.60 | 51.00 | 0.00 | 51.877 | 0.239 | 0.013 | 277.5 | 279.4 | 276.6 | 276.4 |
| 45 | 101.60 | 54.00 | 0.00 | 51.566 | 0.155 | 0.018 | 277.6 | 279.5 | 276.6 | 276.5 |
| 46 | 101.60 | 57.00 | 0.00 | 51.868 | 0.006 | 0.017 | 277.6 | 279.4 | 276.7 | 276.7 |
| 47 | 101.60 | 60.00 | 0.00 | 51.618 | 0.008 | 0.017 | 277.4 | 279.4 | 276.6 | 276.6 |
| 48 | 101.60 | 63.00 | 0.00 | 51.558 | 0.008 | 0.019 | 277.6 | 279.4 | 276.7 | 276.7 |
| 49 | 101.60 | 66.00 | 0.00 | 51.387 | 0.010 | 0.015 | 277.7 | 279.4 | 276.8 | 276.8 |
| 50 | 101.60 | 69.00 | 0.00 | 51.538 | 0.011 | 0.017 | 277.7 | 279.4 | 276.8 | 276.8 |
| 51 | 101.60 | 72.00 | 0.00 | 51.472 | 0.010 | 0.019 | 277.6 | 279.4 | 276.7 | 276.7 |
| 52 | 101.60 | 75.00 | 0.00 | 51.318 | 0.012 | 0.019 | 277.4 | 279.4 | 276.7 | 276.7 |

| CONFIGURATION | $X/D_E$ | $T_j/T_o$ | $M_j$ | HORIZONTAL | VERTICAL | DIAGONAL -14° |
|---|---|---|---|---|---|---|
| 0 - 0 (BASELINE) | 5 | 2.3 | 0.8 | TAB337T | TAB338T | TAB343T |
| | 7 | 2.3 | 0.8 | TAB350T | TAB349T | - - - - |
| | 9 | 2.3 | 0.8 | TAB332T | TAB331T | TAB346T |
| | 13 | 2.3 | 0.8 | TAB356T | TAB355T | - - - - |
| I - B | 5 | 2.3 | 0.8 | TAB340T | TAB339T | TAB344T |
| | 7 | 2.3 | 0.8 | TAB351T | TAB352T | - - - - |
| | 9 | 2.3 | 0.8 | TAB333T | TAB334T | TAB347T |
| | 13 | 2.3 | 0.8 | TAB354T | TAB353T | - - - - |
| III - B | 5 | 2.3 | 0.8 | TAB341T | TAB342T | TAB345T |
| | 9 | 2.3 | 0.8 | TAB336T | TAB335T | TAB348T |
| I - C | 9 | 2.3 | 0.8 | TAB359T | TAB360T | - - - - |
| | 13 | 2.3 | 0.8 | TAB357T | TAB358T | - - - - |

Figure 12 Mixing Modification for Heated Subsonic Jets

File : TAB337T 24-FEB-89
24-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 635 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 5
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.781 kPa

Mean gauged plenum pressure : 51.348 kPa
RMS gauged plenum pressure : 0.388 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa. | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | 0.00 | 51.577 | 0.149 | 0.085 | 277.0 | 631.2 | 298.0 | 297.9 |
| 3 | 254.00 | -96.00 | 0.00 | 50.605 | 0.304 | 0.160 | 277.1 | 632.8 | 301.0 | 300.7 |
| 4 | 254.00 | -92.00 | 0.00 | 51.309 | 0.702 | 0.403 | 277.1 | 632.0 | 311.1 | 310.5 |
| 5 | 254.00 | -88.00 | 0.00 | 51.574 | 1.265 | 0.741 | 277.1 | 630.0 | 317.9 | 316.7 |
| 6 | 254.00 | -84.00 | 0.00 | 51.530 | 1.974 | 1.119 | 277.1 | 628.8 | 327.3 | 325.5 |
| 7 | 254.00 | -80.00 | 0.00 | 51.491 | 2.779 | 1.586 | 277.4 | 633.9 | 333.3 | 330.7 |
| 8 | 254.00 | -76.00 | 0.00 | 51.309 | 3.719 | 2.165 | 277.6 | 630.8 | 343.2 | 339.6 |
| 9 | 254.00 | -72.00 | 0.00 | 50.830 | 4.982 | 2.936 | 277.9 | 631.1 | 357.1 | 352.1 |
| 10 | 254.00 | -68.00 | 0.00 | 51.702 | 6.162 | 3.739 | 277.7 | 629.6 | 365.0 | 358.8 |
| 11 | 254.00 | -64.00 | 0.00 | 51.625 | 7.924 | 4.616 | 277.6 | 628.8 | 378.9 | 370.7 |
| 12 | 254.00 | -60.00 | 0.00 | 51.551 | 9.920 | 5.711 | 277.7 | 632.7 | 394.7 | 384.1 |
| 13 | 254.00 | -56.00 | 0.00 | 51.263 | 12.080 | 6.979 | 277.6 | 634.7 | 408.8 | 395.7 |
| 14 | 254.00 | -52.00 | 0.00 | 51.070 | 14.533 | 8.395 | 277.4 | 634.3 | 425.2 | 409.0 |
| 15 | 254.00 | -48.00 | 0.00 | 50.689 | 17.480 | 10.141 | 277.6 | 633.1 | 440.3 | 420.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -44.00 | 0.00 | 51.090 | 20.478 | 11.856 | 277.3 | 631.9 | 450.4 | 427.1 |
| 17 | 254.00 | -40.00 | 0.00 | 51.498 | 23.672 | 13.706 | 277.4 | 630.3 | 465.6 | 438.3 |
| 18 | 254.00 | -36.00 | 0.00 | 51.682 | 26.697 | 15.373 | 277.6 | 629.4 | 479.6 | 448.4 |
| 19 | 254.00 | -32.00 | 0.00 | 51.324 | 28.419 | 16.483 | 277.5 | 635.1 | 492.7 | 458.9 |
| 20 | 254.00 | -28.00 | 0.00 | 51.179 | 30.673 | 17.798 | 277.5 | 637.0 | 505.1 | 468.2 |
| 21 | 254.00 | -24.00 | 0.00 | 51.545 | 33.111 | 19.323 | 277.3 | 635.3 | 511.9 | 472.1 |
| 22 | 254.00 | -20.00 | 0.00 | 51.767 | 35.301 | 20.498 | 277.4 | 632.1 | 518.5 | 476.0 |
| 23 | 254.00 | -16.00 | 0.00 | 51.911 | 36.881 | 21.405 | 277.4 | 632.4 | 525.5 | 480.9 |
| 24 | 254.00 | -12.00 | 0.00 | 50.829 | 36.911 | 21.461 | 277.3 | 634.0 | 530.8 | 485.7 |
| 25 | 254.00 | -8.00 | 0.00 | 51.001 | 37.410 | 21.646 | 277.5 | 635.1 | 531.6 | 485.9 |
| 26 | 254.00 | -4.00 | 0.00 | 51.476 | 37.866 | 21.954 | 277.3 | 633.3 | 533.1 | 486.9 |
| 27 | 254.00 | 0.00 | 0.00 | 51.633 | 37.976 | 22.072 | 277.4 | 631.6 | 532.6 | 486.3 |
| 28 | 254.00 | 4.00 | 0.00 | 51.876 | 38.217 | 22.146 | 277.4 | 631.1 | 531.0 | 484.6 |
| 29 | 254.00 | 8.00 | 0.00 | 51.110 | 37.395 | 21.732 | 277.4 | 631.9 | 530.5 | 484.9 |
| 30 | 254.00 | 12.00 | 0.00 | 51.024 | 37.085 | 21.505 | 277.2 | 633.2 | 529.0 | 483.9 |
| 31 | 254.00 | 16.00 | 0.00 | 51.370 | 36.076 | 20.963 | 277.5 | 631.1 | 520.3 | 476.9 |
| 32 | 254.00 | 20.00 | 0.00 | 51.654 | 34.506 | 19.956 | 277.8 | 630.5 | 511.2 | 470.0 |
| 33 | 254.00 | 24.00 | 0.00 | 51.960 | 31.582 | 18.353 | 277.7 | 630.5 | 499.2 | 461.8 |
| 34 | 254.00 | 28.00 | 0.00 | 51.205 | 27.094 | 15.496 | 277.6 | 634.0 | 485.3 | 453.3 |
| 35 | 254.00 | 32.00 | 0.00 | 51.216 | 22.861 | 13.209 | 277.8 | 636.1 | 467.5 | 440.9 |
| 36 | 254.00 | 36.00 | 0.00 | 51.559 | 18.356 | 10.569 | 277.7 | 633.4 | 444.9 | 424.0 |
| 37 | 254.00 | 40.00 | 0.00 | 51.826 | 15.120 | 8.823 | 277.5 | 631.4 | 431.5 | 414.5 |
| 38 | 254.00 | 44.00 | 0.00 | 51.448 | 11.728 | 6.866 | 277.8 | 632.8 | 413.2 | 400.3 |
| 39 | 254.00 | 48.00 | 0.00 | 50.779 | 9.481 | 5.516 | 278.0 | 635.0 | 400.5 | 390.2 |
| 40 | 254.00 | 52.00 | 0.00 | 51.503 | 7.711 | 4.594 | 278.0 | 633.0 | 385.1 | 377.0 |
| 41 | 254.00 | 56.00 | 0.00 | 51.645 | 6.313 | 3.795 | 277.9 | 632.3 | 370.2 | 363.7 |
| 42 | 254.00 | 60.00 | 0.00 | 51.417 | 5.277 | 3.126 | 278.0 | 633.6 | 363.2 | 357.9 |
| 43 | 254.00 | 64.00 | 0.00 | 50.730 | 4.036 | 2.355 | 278.0 | 634.3 | 353.5 | 349.5 |
| 44 | 254.00 | 68.00 | 0.00 | 51.486 | 3.292 | 1.868 | 277.9 | 632.7 | 342.6 | 339.4 |
| 45 | 254.00 | 72.00 | 0.00 | 51.832 | 2.390 | 1.427 | 277.9 | 632.8 | 335.6 | 333.3 |
| 46 | 254.00 | 76.00 | 0.00 | 51.719 | 1.658 | 1.006 | 278.0 | 632.7 | 326.3 | 324.8 |
| 47 | 254.00 | 80.00 | 0.00 | 51.267 | 1.094 | 0.679 | 278.3 | 632.1 | 320.8 | 319.8 |
| 48 | 254.00 | 84.00 | 0.00 | 50.602 | 0.497 | 0.308 | 278.0 | 634.4 | 311.3 | 310.9 |
| 49 | 254.00 | 88.00 | 0.00 | 51.048 | 0.300 | 0.219 | 277.8 | 634.8 | 307.0 | 306.7 |
| 50 | 254.00 | 92.00 | 0.00 | 51.176 | 0.071 | 0.078 | 278.0 | 632.1 | 297.1 | 297.0 |
| 51 | 254.00 | 96.00 | 0.00 | 51.276 | 0.028 | 0.022 | 277.8 | 631.6 | 292.0 | 292.0 |
| 52 | 254.00 | 100.00 | 0.00 | 50.474 | 0.011 | 0.011 | 277.9 | 632.4 | 289.8 | 289.8 |

File : TAB338T 24-FEB-89
24-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 635 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 5
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.781 kPa

Mean gauged plenum pressure : 51.474 kPa
RMS gauged plenum pressure : 0.397 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | 0.00 | -40.00 | 52.085 | 0.359 | 0.211 | 277.7 | 630.5 | 320.0 | 319.7 |
| 3 | 254.00 | 0.00 | -39.00 | 51.462 | 0.439 | 0.266 | 277.9 | 634.2 | 320.1 | 319.7 |
| 4 | 254.00 | 0.00 | -38.00 | 51.093 | 0.547 | 0.358 | 278.0 | 635.8 | 323.3 | 322.8 |
| 5 | 254.00 | 0.00 | -37.00 | 51.389 | 0.763 | 0.406 | 278.2 | 635.6 | 330.0 | 329.3 |
| 6 | 254.00 | 0.00 | -36.00 | 51.720 | 1.059 | 0.591 | 278.3 | 634.0 | 334.9 | 333.9 |
| 7 | 254.00 | 0.00 | -35.00 | 51.567 | 1.228 | 0.737 | 277.9 | 633.4 | 338.8 | 337.6 |
| 8 | 254.00 | 0.00 | -34.00 | 50.814 | 1.487 | 0.876 | 277.8 | 635.7 | 342.8 | 341.3 |
| 9 | 254.00 | 0.00 | -33.00 | 51.579 | 1.822 | 1.045 | 277.9 | 632.5 | 347.1 | 345.3 |
| 10 | 254.00 | 0.00 | -32.00 | 51.751 | 2.148 | 1.247 | 278.1 | 630.5 | 352.9 | 350.7 |
| 11 | 254.00 | 0.00 | -31.00 | 51.858 | 2.554 | 1.481 | 278.1 | 629.8 | 356.6 | 354.0 |
| 12 | 254.00 | 0.00 | -30.00 | 51.456 | 3.047 | 1.771 | 278.1 | 631.0 | 362.5 | 359.4 |
| 13 | 254.00 | 0.00 | -29.00 | 50.920 | 3.582 | 2.086 | 278.3 | 632.6 | 368.3 | 364.6 |
| 14 | 254.00 | 0.00 | -28.00 | 51.514 | 4.197 | 2.443 | 278.5 | 631.5 | 374.2 | 369.8 |
| 15 | 254.00 | 0.00 | -27.00 | 51.754 | 4.919 | 2.869 | 278.0 | 630.4 | 379.2 | 374.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | 0.00 | -26.00 | 51.901 | 5.496 | 3.254 | 278.1 | 629.3 | 384.1 | 378.2 |
| 17 | 254.00 | 0.00 | -25.00 | 51.272 | 6.219 | 3.593 | 278.0 | 631.1 | 392.2 | 385.5 |
| 18 | 254.00 | 0.00 | -24.00 | 51.250 | 7.022 | 4.044 | 278.1 | 633.3 | 398.2 | 390.5 |
| 19 | 254.00 | 0.00 | -23.00 | 51.844 | 8.148 | 4.701 | 278.2 | 632.3 | 405.9 | 396.9 |
| 20 | 254.00 | 0.00 | -22.00 | 52.042 | 8.962 | 5.264 | 278.0 | 631.3 | 413.1 | 403.1 |
| 21 | 254.00 | 0.00 | -21.00 | 51.821 | 10.209 | 5.962 | 277.7 | 630.5 | 419.1 | 407.6 |
| 22 | 254.00 | 0.00 | -20.00 | 50.965 | 11.226 | 6.557 | 277.7 | 631.8 | 428.7 | 415.9 |
| 23 | 254.00 | 0.00 | -19.00 | 50.573 | 12.432 | 7.204 | 277.9 | 635.2 | 434.5 | 420.2 |
| 24 | 254.00 | 0.00 | -18.00 | 51.573 | 14.032 | 8.117 | 277.9 | 632.8 | 439.3 | 423.1 |
| 25 | 254.00 | 0.00 | -17.00 | 51.897 | 15.363 | 8.974 | 277.8 | 630.7 | 444.7 | 426.9 |
| 26 | 254.00 | 0.00 | -16.00 | 51.495 | 16.868 | 9.827 | 278.1 | 630.4 | 455.9 | 436.1 |
| 27 | 254.00 | 0.00 | -15.00 | 50.900 | 18.276 | 10.648 | 278.0 | 630.9 | 462.4 | 440.8 |
| 28 | 254.00 | 0.00 | -14.00 | 51.206 | 20.019 | 11.629 | 278.2 | 629.8 | 468.3 | 444.6 |
| 29 | 254.00 | 0.00 | -13.00 | 51.641 | 21.957 | 12.627 | 278.2 | 630.9 | 475.7 | 449.6 |
| 30 | 254.00 | 0.00 | -12.00 | 52.089 | 23.964 | 13.942 | 278.1 | 633.1 | 485.1 | 456.4 |
| 31 | 254.00 | 0.00 | -11.00 | 50.978 | 25.320 | 14.658 | 277.9 | 636.3 | 493.6 | 463.0 |
| 32 | 254.00 | 0.00 | -10.00 | 51.209 | 27.084 | 15.853 | 277.8 | 637.2 | 498.3 | 465.6 |
| 33 | 254.00 | 0.00 | -9.00 | 51.544 | 29.078 | 16.888 | 277.6 | 635.6 | 505.8 | 470.5 |
| 34 | 254.00 | 0.00 | -8.00 | 51.727 | 30.884 | 17.938 | 277.5 | 634.8 | 511.2 | 473.7 |
| 35 | 254.00 | 0.00 | -7.00 | 51.638 | 32.456 | 18.900 | 277.6 | 634.4 | 517.0 | 477.5 |
| 36 | 254.00 | 0.00 | -6.00 | 51.003 | 33.556 | 19.513 | 277.6 | 636.1 | 521.8 | 480.8 |
| 37 | 254.00 | 0.00 | -5.00 | 51.688 | 35.373 | 20.490 | 277.7 | 634.3 | 527.1 | 483.9 |
| 38 | 254.00 | 0.00 | -4.00 | 51.877 | 36.916 | 21.414 | 277.6 | 632.8 | 528.5 | 483.6 |
| 39 | 254.00 | 0.00 | -3.00 | 51.640 | 37.146 | 21.535 | 277.7 | 632.7 | 530.1 | 484.8 |
| 40 | 254.00 | 0.00 | -2.00 | 50.859 | 36.980 | 21.580 | 277.9 | 634.7 | 533.7 | 488.3 |
| 41 | 254.00 | 0.00 | -1.00 | 51.329 | 37.818 | 21.955 | 277.8 | 633.6 | 534.5 | 488.2 |
| 42 | 254.00 | 0.00 | 0.00 | 51.752 | 37.984 | 22.005 | 277.8 | 632.2 | 530.4 | 484.3 |
| 43 | 254.00 | 0.00 | 1.00 | 51.793 | 37.736 | 21.900 | 278.0 | 630.8 | 531.1 | 485.2 |
| 44 | 254.00 | 0.00 | 2.00 | 51.583 | 36.720 | 21.321 | 277.9 | 629.5 | 526.8 | 482.2 |
| 45 | 254.00 | 0.00 | 3.00 | 50.838 | 35.330 | 20.510 | 277.7 | 631.4 | 526.0 | 482.9 |
| 46 | 254.00 | 0.00 | 4.00 | 51.365 | 34.671 | 20.136 | 277.6 | 630.5 | 522.8 | 480.6 |
| 47 | 254.00 | 0.00 | 5.00 | 51.778 | 33.625 | 19.529 | 278.0 | 627.8 | 515.4 | 474.8 |
| 48 | 254.00 | 0.00 | 6.00 | 51.810 | 32.389 | 18.785 | 278.0 | 623.8 | 508.7 | 469.8 |
| 49 | 254.00 | 0.00 | 7.00 | 50.920 | 30.169 | 17.447 | 278.1 | 628.5 | 509.1 | 472.5 |
| 50 | 254.00 | 0.00 | 8.00 | 51.043 | 28.646 | 16.601 | 277.7 | 632.4 | 500.4 | 465.9 |
| 51 | 254.00 | 0.00 | 9.00 | 51.490 | 27.405 | 15.831 | 277.8 | 631.1 | 494.4 | 461.6 |
| 52 | 254.00 | 0.00 | 10.00 | 51.752 | 25.674 | 14.966 | 277.9 | 631.1 | 490.4 | 459.6 |

File : TAB343T 25-FEB-89
25-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 650 K
DRPTAB, PLTDMN, -14 DEG
0-0

C1 : X/D = 5
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.544 kPa

Mean gauged plenum pressure : 51.424 kPa
RMS gauged plenum pressure : 0.413 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | 0.00 | 51.522 | 0.040 | 0.028 | 283.6 | 649.2 | 303.5 | 303.5 |
| 3 | 254.00 | -96.00 | 0.00 | 51.084 | 0.120 | 0.070 | 283.7 | 649.9 | 301.7 | 301.6 |
| 4 | 254.00 | -92.00 | 0.00 | 51.315 | 0.314 | 0.153 | 283.7 | 650.6 | 309.3 | 309.0 |
| 5 | 254.00 | -88.00 | 0.00 | 51.981 | 0.535 | 0.278 | 283.7 | 648.1 | 315.5 | 315.0 |
| 6 | 254.00 | -84.00 | 0.00 | 51.951 | 0.686 | 0.483 | 284.1 | 647.9 | 320.5 | 319.9 |
| 7 | 254.00 | -80.00 | 0.00 | 51.274 | 1.737 | 1.160 | 284.2 | 648.8 | 338.5 | 336.8 |
| 8 | 254.00 | -76.00 | 0.00 | 51.111 | 2.367 | 1.410 | 283.8 | 649.3 | 343.4 | 341.1 |
| 9 | 254.00 | -72.00 | 0.00 | 51.575 | 3.468 | 1.965 | 283.8 | 646.6 | 351.8 | 348.4 |
| 10 | 254.00 | -68.00 | 0.00 | 51.837 | 3.867 | 2.369 | 283.8 | 645.9 | 357.7 | 353.8 |
| 11 | 254.00 | -64.00 | 0.00 | 51.045 | 4.652 | 2.574 | 283.9 | 648.9 | 365.7 | 360.9 |
| 12 | 254.00 | -60.00 | 0.00 | 50.674 | 5.485 | 3.159 | 283.8 | 650.2 | 382.7 | 376.9 |
| 13 | 254.00 | -56.00 | 0.00 | 51.277 | 6.394 | 3.687 | 284.0 | 649.4 | 389.5 | 382.6 |
| 14 | 254.00 | -52.00 | 0.00 | 51.604 | 8.716 | 5.168 | 283.8 | 647.6 | 406.0 | 396.4 |
| 15 | 254.00 | -48.00 | 0.00 | 51.264 | 11.155 | 6.472 | 284.1 | 648.0 | 423.9 | 411.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -44.00 | 0.00 | 50.652 | 13.577 | 7.909 | 284.4 | 649.5 | 438.1 | 422.4 |
| 17 | 254.00 | -40.00 | 0.00 | 51.390 | 17.317 | 10.062 | 284.0 | 649.5 | 456.3 | 436.0 |
| 18 | 254.00 | -36.00 | 0.00 | 51.831 | 20.846 | 12.183 | 284.1 | 649.0 | 473.7 | 448.8 |
| 19 | 254.00 | -32.00 | 0.00 | 51.561 | 23.825 | 13.839 | 284.3 | 648.9 | 484.7 | 456.1 |
| 20 | 254.00 | -28.00 | 0.00 | 51.261 | 26.957 | 15.756 | 284.5 | 650.5 | 501.0 | 468.2 |
| 21 | 254.00 | -24.00 | 0.00 | 51.305 | 30.166 | 17.507 | 284.5 | 650.7 | 514.1 | 477.1 |
| 22 | 254.00 | -20.00 | 0.00 | 51.773 | 33.186 | 19.208 | 284.4 | 649.0 | 525.6 | 484.6 |
| 23 | 254.00 | -16.00 | 0.00 | 51.622 | 35.205 | 20.442 | 284.1 | 648.2 | 533.9 | 490.2 |
| 24 | 254.00 | -12.00 | 0.00 | 50.952 | 36.051 | 20.969 | 284.1 | 649.6 | 539.3 | 494.3 |
| 25 | 254.00 | -8.00 | 0.00 | 51.393 | 37.260 | 21.558 | 283.9 | 649.2 | 543.2 | 496.7 |
| 26 | 254.00 | -4.00 | 0.00 | 51.767 | 37.881 | 22.041 | 284.3 | 648.1 | 544.7 | 497.4 |
| 27 | 254.00 | 0.00 | 0.00 | 51.947 | 38.144 | 22.120 | 284.2 | 646.1 | 545.8 | 498.2 |
| 28 | 254.00 | 4.00 | 0.00 | 51.086 | 37.341 | 21.633 | 284.3 | 647.8 | 546.5 | 499.6 |
| 29 | 254.00 | 8.00 | 0.00 | 50.941 | 36.634 | 21.375 | 284.1 | 649.8 | 543.1 | 497.2 |
| 30 | 254.00 | 12.00 | 0.00 | 51.450 | 36.617 | 21.256 | 284.3 | 648.4 | 539.0 | 493.5 |
| 31 | 254.00 | 16.00 | 0.00 | 52.187 | 35.155 | 20.439 | 284.2 | 647.1 | 529.7 | 486.4 |
| 32 | 254.00 | 20.00 | 0.00 | 51.437 | 32.340 | 18.751 | 284.4 | 648.4 | 519.6 | 479.9 |

File : TAB350T 1-MAR-89
1-MAR-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 644 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 7
C2 : HORIZONTAL
C3 : -2MM
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.544 kPa

Mean gauged plenum pressure : 51.248 kPa
RMS gauged plenum pressure : 0.275 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | -110.00 | -2.00 | 51.196 | 0.171 | 0.095 | 280.7 | 643.0 | 304.4 | 304.2 |
| 3 | 355.60 | -105.00 | -2.00 | 51.443 | 0.194 | 0.111 | 280.7 | 642.1 | 305.1 | 304.9 |
| 4 | 355.60 | -100.00 | -2.00 | 51.400 | 0.589 | 0.350 | 280.7 | 643.0 | 314.2 | 313.7 |
| 5 | 355.60 | -95.00 | -2.00 | 51.060 | 0.959 | 0.579 | 280.6 | 643.1 | 322.0 | 321.1 |
| 6 | 355.60 | -90.00 | -2.00 | 51.213 | 1.616 | 1.056 | 280.7 | 644.0 | 331.6 | 330.1 |
| 7 | 355.60 | -85.00 | -2.00 | 51.635 | 2.254 | 1.406 | 280.6 | 642.4 | 338.3 | 336.1 |
| 8 | 355.60 | -80.00 | -2.00 | 51.188 | 3.098 | 1.803 | 280.6 | 642.5 | 344.5 | 341.5 |
| 9 | 355.60 | -75.00 | -2.00 | 51.137 | 4.189 | 2.444 | 280.5 | 641.6 | 354.4 | 350.2 |
| 10 | 355.60 | -70.00 | -2.00 | 51.110 | 5.409 | 3.153 | 280.6 | 644.5 | 365.9 | 360.4 |
| 11 | 355.60 | -65.00 | -2.00 | 51.446 | 6.632 | 3.905 | 280.5 | 644.3 | 376.4 | 369.5 |
| 12 | 355.60 | -60.00 | -2.00 | 51.417 | 8.184 | 4.745 | 280.6 | 643.0 | 386.1 | 377.5 |
| 13 | 355.60 | -55.00 | -2.00 | 51.315 | 9.621 | 5.671 | 280.6 | 643.0 | 396.0 | 385.7 |
| 14 | 355.60 | -50.00 | -2.00 | 51.013 | 11.343 | 6.554 | 280.6 | 643.3 | 406.9 | 394.5 |
| 15 | 355.60 | -45.00 | -2.00 | 50.800 | 12.864 | 7.399 | 280.6 | 643.4 | 418.5 | 404.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | -40.00 | -2.00 | 51.385 | 14.812 | 8.646 | 280.5 | 642.0 | 428.8 | 412.2 |
| 17 | 355.60 | -35.00 | -2.00 | 51.474 | 16.834 | 9.768 | 280.6 | 640.4 | 441.0 | 421.8 |
| 18 | 355.60 | -30.00 | -2.00 | 50.997 | 18.562 | 10.780 | 280.6 | 641.7 | 449.8 | 428.4 |
| 19 | 355.60 | -25.00 | -2.00 | 51.007 | 20.449 | 11.940 | 280.6 | 641.2 | 458.3 | 434.6 |
| 20 | 355.60 | -20.00 | -2.00 | 51.619 | 22.843 | 13.197 | 280.7 | 640.6 | 469.0 | 442.3 |
| 21 | 355.60 | -15.00 | -2.00 | 51.627 | 24.001 | 13.969 | 280.7 | 640.7 | 476.7 | 448.4 |
| 22 | 355.60 | -10.00 | -2.00 | 50.992 | 24.510 | 14.233 | 280.7 | 641.5 | 478.8 | 449.8 |
| 23 | 355.60 | -5.00 | -2.00 | 51.134 | 25.291 | 14.651 | 280.7 | 641.0 | 481.3 | 451.4 |
| 24 | 355.60 | 0.00 | -2.00 | 51.503 | 25.331 | 14.740 | 280.7 | 641.1 | 481.6 | 451.6 |
| 25 | 355.60 | 5.00 | -2.00 | 51.421 | 25.362 | 14.617 | 280.6 | 641.5 | 480.0 | 450.1 |
| 26 | 355.60 | 10.00 | -2.00 | 51.091 | 24.426 | 14.170 | 280.6 | 641.7 | 478.3 | 449.4 |
| 27 | 355.60 | 15.00 | -2.00 | 50.893 | 23.456 | 13.576 | 280.5 | 642.3 | 472.8 | 445.2 |
| 28 | 355.60 | 20.00 | -2.00 | 50.981 | 22.188 | 12.852 | 280.4 | 642.3 | 465.8 | 439.9 |
| 29 | 355.60 | 25.00 | -2.00 | 51.312 | 20.531 | 11.865 | 280.4 | 641.1 | 457.4 | 433.6 |
| 30 | 355.60 | 30.00 | -2.00 | 51.291 | 18.086 | 10.518 | 280.4 | 640.1 | 445.7 | 425.0 |
| 31 | 355.60 | 35.00 | -2.00 | 51.085 | 15.424 | 8.910 | 280.4 | 640.9 | 434.5 | 417.0 |
| 32 | 355.60 | 40.00 | -2.00 | 51.166 | 13.028 | 7.515 | 280.5 | 640.4 | 421.0 | 406.5 |
| 33 | 355.60 | 45.00 | -2.00 | 51.532 | 10.669 | 6.208 | 280.5 | 638.7 | 407.3 | 395.6 |
| 34 | 355.60 | 50.00 | -2.00 | 51.246 | 8.369 | 4.896 | 280.5 | 638.7 | 392.6 | 383.6 |
| 35 | 355.60 | 55.00 | -2.00 | 50.894 | 6.730 | 3.882 | 280.4 | 639.3 | 382.4 | 375.3 |
| 36 | 355.60 | 60.00 | -2.00 | 51.050 | 5.342 | 3.267 | 280.5 | 638.5 | 371.9 | 366.4 |
| 37 | 355.60 | 65.00 | -2.00 | 51.651 | 4.300 | 2.616 | 280.5 | 637.9 | 361.1 | 356.7 |
| 38 | 355.60 | 70.00 | -2.00 | 51.406 | 3.219 | 1.857 | 280.5 | 639.3 | 349.9 | 346.7 |
| 39 | 355.60 | 75.00 | -2.00 | 51.036 | 2.086 | 1.324 | 280.5 | 641.5 | 338.3 | 336.3 |
| 40 | 355.60 | 80.00 | -2.00 | 51.115 | 1.472 | 1.005 | 280.4 | 642.7 | 330.6 | 329.2 |
| 41 | 355.60 | 85.00 | -2.00 | 51.078 | 1.337 | 0.776 | 280.3 | 643.3 | 325.5 | 324.3 |
| 42 | 355.60 | 90.00 | -2.00 | 51.542 | 0.734 | 0.477 | 280.4 | 642.5 | 320.3 | 319.6 |
| 43 | 355.60 | 95.00 | -2.00 | 51.609 | 0.283 | 0.226 | 280.4 | 641.3 | 310.9 | 310.6 |
| 44 | 355.60 | 100.00 | -2.00 | 51.083 | 0.213 | 0.135 | 280.4 | 641.7 | 308.1 | 307.9 |
| 45 | 355.60 | 105.00 | -2.00 | 51.030 | 0.046 | 0.053 | 280.4 | 641.9 | 301.7 | 301.7 |
| 46 | 355.60 | 110.00 | -2.00 | 51.613 | 0.014 | 0.016 | 280.4 | 639.6 | 295.3 | 295.3 |

File : TAB349T 1-MAR-89
1-MAR-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 644 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 7
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.578 kPa

Mean gauged plenum pressure : 51.265 kPa
RMS gauged plenum pressure : 0.305 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | 0.00 | -60.00 | 51.778 | 0.025 | 0.013 | 278.8 | 640.3 | 308.2 | 308.2 |
| 3 | 355.60 | 0.00 | -58.00 | 51.382 | 0.059 | 0.040 | 278.9 | 639.8 | 309.3 | 309.2 |
| 4 | 355.60 | 0.00 | -56.00 | 50.889 | 0.170 | 0.095 | 278.9 | 641.1 | 313.3 | 313.1 |
| 5 | 355.60 | 0.00 | -54.00 | 51.197 | 0.277 | 0.128 | 279.0 | 647.8 | 318.8 | 318.5 |
| 6 | 355.60 | 0.00 | -52.00 | 51.383 | 0.401 | 0.261 | 279.0 | 647.3 | 324.7 | 324.3 |
| 7 | 355.60 | 0.00 | -50.00 | 51.528 | 0.635 | 0.363 | 279.0 | 645.1 | 330.0 | 329.4 |
| 8 | 355.60 | 0.00 | -48.00 | 51.037 | 0.827 | 0.483 | 279.1 | 645.4 | 336.4 | 335.6 |
| 9 | 355.60 | 0.00 | -46.00 | 51.210 | 1.187 | 0.678 | 279.1 | 645.1 | 341.7 | 340.5 |
| 10 | 355.60 | 0.00 | -44.00 | 51.148 | 1.597 | 0.932 | 279.2 | 644.7 | 348.1 | 346.5 |
| 11 | 355.60 | 0.00 | -42.00 | 51.538 | 2.070 | 1.145 | 279.4 | 642.3 | 354.9 | 352.8 |
| 12 | 355.60 | 0.00 | -40.00 | 51.059 | 2.562 | 1.494 | 279.5 | 643.4 | 362.9 | 360.3 |
| 13 | 355.60 | 0.00 | -38.00 | 51.220 | 3.210 | 1.936 | 279.4 | 643.5 | 370.2 | 366.8 |
| 14 | 355.60 | 0.00 | -36.00 | 50.896 | 3.823 | 2.243 | 279.5 | 642.7 | 375.5 | 371.5 |
| 15 | 355.60 | 0.00 | -34.00 | 51.199 | 4.739 | 2.700 | 279.5 | 641.0 | 383.5 | 378.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | 0.00 | -32.00 | 51.586 | 5.810 | 3.425 | 279.5 | 643.5 | 393.3 | 387.0 |
| 17 | 355.60 | 0.00 | -30.00 | 51.176 | 6.672 | 3.967 | 279.6 | 645.4 | 402.6 | 395.2 |
| 18 | 355.60 | 0.00 | -28.00 | 50.904 | 7.885 | 4.531 | 279.6 | 647.4 | 410.5 | 401.7 |
| 19 | 355.60 | 0.00 | -26.00 | 51.528 | 9.237 | 5.345 | 279.6 | 645.1 | 418.0 | 407.5 |
| 20 | 355.60 | 0.00 | -24.00 | 51.520 | 10.759 | 6.207 | 279.6 | 643.8 | 425.9 | 413.6 |
| 21 | 355.60 | 0.00 | -22.00 | 51.296 | 12.188 | 7.038 | 279.7 | 643.9 | 431.1 | 417.1 |
| 22 | 355.60 | 0.00 | -20.00 | 50.835 | 13.592 | 7.850 | 279.7 | 644.4 | 438.2 | 422.5 |
| 23 | 355.60 | 0.00 | -18.00 | 51.363 | 15.461 | 8.981 | 279.7 | 643.0 | 445.9 | 427.9 |
| 24 | 355.60 | 0.00 | -16.00 | 51.445 | 17.464 | 10.048 | 279.8 | 641.4 | 455.7 | 435.2 |
| 25 | 355.60 | 0.00 | -14.00 | 51.607 | 19.488 | 11.326 | 279.8 | 640.4 | 460.5 | 437.7 |
| 26 | 355.60 | 0.00 | -12.00 | 51.063 | 20.792 | 12.086 | 279.7 | 641.2 | 466.7 | 442.2 |
| 27 | 355.60 | 0.00 | -10.00 | 51.356 | 22.330 | 13.119 | 279.7 | 640.5 | 472.1 | 445.7 |
| 28 | 355.60 | 0.00 | -8.00 | 51.281 | 23.748 | 13.738 | 279.7 | 631.5 | 470.2 | 442.5 |
| 29 | 355.60 | 0.00 | -6.00 | 51.427 | 24.623 | 14.244 | 279.7 | 640.4 | 479.6 | 450.5 |
| 30 | 355.60 | 0.00 | -4.00 | 51.000 | 24.912 | 14.556 | 279.7 | 645.0 | 483.3 | 453.7 |
| 31 | 355.60 | 0.00 | -2.00 | 51.149 | 25.136 | 14.623 | 279.7 | 645.7 | 482.9 | 453.0 |
| 32 | 355.60 | 0.00 | 0.00 | 51.530 | 25.140 | 14.582 | 279.6 | 644.6 | 482.1 | 452.3 |
| 33 | 355.60 | 0.00 | 2.00 | 51.607 | 24.381 | 14.176 | 279.5 | 644.3 | 480.9 | 451.9 |
| 34 | 355.60 | 0.00 | 4.00 | 51.118 | 23.183 | 13.509 | 279.5 | 645.5 | 476.6 | 449.1 |
| 35 | 355.60 | 0.00 | 6.00 | 50.978 | 21.747 | 12.584 | 279.5 | 646.1 | 470.8 | 445.1 |
| 36 | 355.60 | 0.00 | 8.00 | 51.504 | 20.593 | 11.852 | 279.4 | 644.6 | 465.6 | 441.4 |
| 37 | 355.60 | 0.00 | 10.00 | 51.566 | 18.778 | 10.862 | 279.4 | 643.9 | 459.4 | 437.4 |

File : TAB332T 23-FEB-89
23-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 627 K
DRPTAB, PLTTAB
000-0

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.968 kPa

Mean gauged plenum pressure : 50.871 kPa
RMS gauged plenum pressure : 0.287 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 50.668 | 0.322 | 0.189 | 272.8 | 629.7 | 302.9 | 302.6 |
| 3 | 457.20 | -105.00 | 0.00 | 50.978 | 0.491 | 0.409 | 272.8 | 628.9 | 304.5 | 304.1 |
| 4 | 457.20 | -100.00 | 0.00 | 51.188 | 0.881 | 0.553 | 272.7 | 627.5 | 314.0 | 313.2 |
| 5 | 457.20 | -95.00 | 0.00 | 50.730 | 1.136 | 0.651 | 272.7 | 626.9 | 316.7 | 315.7 |
| 6 | 457.20 | -90.00 | 0.00 | 50.567 | 1.567 | 0.998 | 272.7 | 624.9 | 322.6 | 321.1 |
| 7 | 457.20 | -85.00 | 0.00 | 50.680 | 2.264 | 1.279 | 272.6 | 627.1 | 328.5 | 326.4 |
| 8 | 457.20 | -80.00 | 0.00 | 51.073 | 2.690 | 1.573 | 272.7 | 627.5 | 333.2 | 330.6 |
| 9 | 457.20 | -75.00 | 0.00 | 51.011 | 3.570 | 2.146 | 272.6 | 627.1 | 340.8 | 337.3 |
| 10 | 457.20 | -70.00 | 0.00 | 50.786 | 4.540 | 2.606 | 272.6 | 626.0 | 349.2 | 344.7 |
| 11 | 457.20 | -65.00 | 0.00 | 50.585 | 5.285 | 3.085 | 272.6 | 625.5 | 356.0 | 350.7 |
| 12 | 457.20 | -60.00 | 0.00 | 50.512 | 6.144 | 3.589 | 272.6 | 625.6 | 362.3 | 356.1 |
| 13 | 457.20 | -55.00 | 0.00 | 50.875 | 7.404 | 4.268 | 272.5 | 625.3 | 371.6 | 364.0 |
| 14 | 457.20 | -50.00 | 0.00 | 51.174 | 8.438 | 4.948 | 272.5 | 623.9 | 376.5 | 367.8 |
| 15 | 457.20 | -45.00 | 0.00 | 50.927 | 9.444 | 5.476 | 272.5 | 622.6 | 382.8 | 372.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 50.710 | 10.672 | 6.190 | 272.5 | 621.6 | 393.5 | 382.1 |
| 17 | 457.20 | -35.00 | 0.00 | 50.584 | 11.812 | 6.822 | 272.5 | 625.9 | 402.0 | 389.2 |
| 18 | 457.20 | -30.00 | 0.00 | 51.153 | 12.786 | 7.464 | 272.4 | 624.9 | 404.5 | 390.7 |
| 19 | 457.20 | -25.00 | 0.00 | 50.928 | 14.082 | 8.137 | 272.4 | 624.5 | 412.8 | 397.4 |
| 20 | 457.20 | -20.00 | 0.00 | 51.142 | 15.115 | 8.704 | 272.5 | 623.5 | 418.2 | 401.5 |
| 21 | 457.20 | -15.00 | 0.00 | 50.868 | 15.703 | 9.113 | 272.6 | 623.0 | 420.7 | 403.4 |
| 22 | 457.20 | -10.00 | 0.00 | 50.783 | 16.299 | 9.477 | 272.6 | 624.7 | 426.5 | 408.3 |
| 23 | 457.20 | -5.00 | 0.00 | 51.075 | 16.735 | 9.672 | 272.7 | 623.8 | 427.3 | 408.7 |
| 24 | 457.20 | 0.00 | 0.00 | 50.997 | 16.937 | 9.813 | 272.7 | 622.9 | 428.0 | 409.1 |
| 25 | 457.20 | 5.00 | 0.00 | 51.434 | 17.198 | 9.904 | 272.7 | 620.9 | 425.9 | 406.8 |
| 26 | 457.20 | 10.00 | 0.00 | 50.695 | 16.443 | 9.677 | 272.6 | 621.4 | 425.1 | 406.8 |
| 27 | 457.20 | 15.00 | 0.00 | 50.394 | 15.955 | 9.257 | 272.6 | 622.1 | 422.2 | 404.5 |
| 28 | 457.20 | 20.00 | 0.00 | 50.983 | 15.512 | 8.969 | 272.7 | 620.9 | 418.3 | 401.2 |

File : TAB331T 23-FEB-89
23-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 625 K
DRPTAB, PLTTAB
000-0

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.002 kPa

Mean gauged plenum pressure : 50.952 kPa
RMS gauged plenum pressure : 0.287 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.199 | 0.653 | 0.365 | 271.5 | 623.2 | 317.2 | 316.6 |
| 3 | 457.20 | 0.00 | -58.00 | 51.007 | 0.686 | 0.382 | 271.4 | 623.2 | 319.5 | 318.9 |
| 4 | 457.20 | 0.00 | -56.00 | 50.890 | 0.797 | 0.460 | 271.7 | 621.8 | 321.2 | 320.5 |
| 5 | 457.20 | 0.00 | -54.00 | 50.657 | 0.975 | 0.557 | 271.6 | 622.5 | 326.4 | 325.5 |
| 6 | 457.20 | 0.00 | -52.00 | 51.032 | 1.318 | 0.768 | 271.6 | 622.5 | 329.5 | 328.2 |
| 7 | 457.20 | 0.00 | -50.00 | 50.753 | 1.447 | 0.839 | 271.6 | 626.2 | 334.2 | 332.8 |
| 8 | 457.20 | 0.00 | -48.00 | 51.049 | 1.854 | 1.095 | 271.7 | 624.6 | 340.6 | 338.8 |
| 9 | 457.20 | 0.00 | -46.00 | 51.108 | 2.091 | 1.219 | 271.7 | 623.3 | 341.2 | 339.2 |
| 10 | 457.20 | 0.00 | -44.00 | 50.663 | 2.446 | 1.444 | 271.5 | 623.9 | 344.8 | 342.4 |
| 11 | 457.20 | 0.00 | -42.00 | 51.086 | 2.877 | 1.688 | 271.4 | 622.8 | 351.4 | 348.5 |
| 12 | 457.20 | 0.00 | -40.00 | 51.086 | 3.393 | 1.987 | 271.6 | 621.4 | 355.5 | 352.1 |
| 13 | 457.20 | 0.00 | -38.00 | 51.040 | 3.727 | 2.172 | 271.6 | 620.6 | 358.5 | 354.7 |
| 14 | 457.20 | 0.00 | -36.00 | 50.888 | 4.264 | 2.546 | 271.7 | 619.1 | 363.5 | 359.1 |
| 15 | 457.20 | 0.00 | -34.00 | 50.762 | 4.837 | 2.807 | 271.5 | 620.5 | 367.8 | 362.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -32.00 | 51.106 | 5.491 | 3.235 | 271.5 | 619.5 | 371.4 | 365.7 |
| 17 | 457.20 | 0.00 | -30.00 | 51.106 | 6.052 | 3.514 | 271.8 | 619.8 | 376.2 | 369.8 |
| 18 | 457.20 | 0.00 | -28.00 | 51.151 | 6.756 | 3.927 | 271.9 | 618.7 | 381.0 | 373.9 |
| 19 | 457.20 | 0.00 | -26.00 | 50.956 | 7.651 | 4.399 | 271.9 | 619.2 | 385.7 | 377.6 |
| 20 | 457.20 | 0.00 | -24.00 | 50.915 | 8.204 | 4.801 | 271.9 | 619.1 | 389.0 | 380.2 |
| 21 | 457.20 | 0.00 | -22.00 | 51.205 | 9.302 | 5.439 | 272.1 | 618.7 | 394.7 | 384.7 |
| 22 | 457.20 | 0.00 | -20.00 | 51.094 | 10.252 | 5.980 | 272.2 | 618.3 | 399.0 | 387.9 |
| 23 | 457.20 | 0.00 | -18.00 | 51.147 | 11.173 | 6.438 | 272.2 | 620.6 | 404.3 | 392.1 |
| 24 | 457.20 | 0.00 | -16.00 | 50.861 | 11.900 | 6.956 | 272.3 | 622.7 | 409.2 | 396.1 |
| 25 | 457.20 | 0.00 | -14.00 | 50.775 | 12.756 | 7.455 | 272.3 | 623.5 | 411.3 | 397.3 |
| 26 | 457.20 | 0.00 | -12.00 | 51.170 | 13.947 | 7.991 | 272.4 | 620.9 | 416.6 | 401.2 |
| 27 | 457.20 | 0.00 | -10.00 | 50.957 | 14.473 | 8.437 | 272.5 | 623.1 | 418.2 | 402.2 |
| 28 | 457.20 | 0.00 | -8.00 | 50.808 | 15.289 | 8.834 | 272.5 | 622.7 | 421.9 | 404.9 |
| 29 | 457.20 | 0.00 | -6.00 | 50.637 | 15.736 | 9.111 | 272.6 | 621.5 | 423.4 | 405.9 |
| 30 | 457.20 | 0.00 | -4.00 | 50.847 | 16.471 | 9.579 | 272.6 | 622.1 | 426.7 | 408.4 |
| 31 | 457.20 | 0.00 | -2.00 | 51.043 | 16.754 | 9.717 | 272.6 | 623.6 | 427.2 | 408.5 |
| 32 | 457.20 | 0.00 | 0.00 | 51.064 | 17.066 | 9.894 | 272.6 | 622.3 | 426.2 | 407.3 |
| 33 | 457.20 | 0.00 | 2.00 | 51.167 | 16.897 | 9.776 | 272.5 | 622.7 | 425.9 | 407.2 |
| 34 | 457.20 | 0.00 | 4.00 | 50.857 | 16.762 | 9.741 | 272.5 | 623.9 | 428.4 | 409.7 |
| 35 | 457.20 | 0.00 | 6.00 | 50.702 | 16.401 | 9.461 | 272.4 | 624.9 | 427.0 | 408.7 |
| 36 | 457.20 | 0.00 | 8.00 | 51.190 | 15.922 | 9.307 | 272.4 | 623.3 | 424.2 | 406.5 |
| 37 | 457.20 | 0.00 | 10.00 | 51.147 | 15.398 | 8.994 | 272.4 | 623.3 | 421.4 | 404.3 |

File : TAB346T 28-FEB-89
28-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 644 K
DRPTAB, PLTTAB, -14 DEG
000-0

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.494 kPa

Mean gauged plenum pressure : 50.818 kPa
RMS gauged plenum pressure : 0.368 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.024 | 0.188 | 0.103 | 279.9 | 642.7 | 308.2 | 308.0 |
| 3 | 457.20 | -105.00 | 0.00 | 51.045 | 0.368 | 0.220 | 280.0 | 642.6 | 309.8 | 309.5 |
| 4 | 457.20 | -100.00 | 0.00 | 50.576 | 0.453 | 0.248 | 280.2 | 640.4 | 313.4 | 313.0 |
| 5 | 457.20 | -95.00 | 0.00 | 50.493 | 0.741 | 0.483 | 280.2 | 639.7 | 318.6 | 317.9 |
| 6 | 457.20 | -90.00 | 0.00 | 50.486 | 1.553 | 0.850 | 280.3 | 639.3 | 328.7 | 327.2 |
| 7 | 457.20 | -85.00 | 0.00 | 50.922 | 1.502 | 0.875 | 280.3 | 637.2 | 330.3 | 328.9 |
| 8 | 457.20 | -80.00 | 0.00 | 50.840 | 2.274 | 1.227 | 280.3 | 639.5 | 339.4 | 337.2 |
| 9 | 457.20 | -75.00 | 0.00 | 50.556 | 2.899 | 1.684 | 280.2 | 645.4 | 348.2 | 345.3 |
| 10 | 457.20 | -70.00 | 0.00 | 50.683 | 3.645 | 2.045 | 280.3 | 645.7 | 353.4 | 349.7 |
| 11 | 457.20 | -65.00 | 0.00 | 49.755 | 4.440 | 2.560 | 280.3 | 644.8 | 361.2 | 356.7 |
| 12 | 457.20 | -60.00 | 0.00 | 50.435 | 5.119 | 2.983 | 280.3 | 645.9 | 367.0 | 361.7 |
| 13 | 457.20 | -55.00 | 0.00 | 50.730 | 6.155 | 3.570 | 280.4 | 647.4 | 375.2 | 368.7 |
| 14 | 457.20 | -50.00 | 0.00 | 51.204 | 7.779 | 4.428 | 280.7 | 639.2 | 384.9 | 376.6 |
| 15 | 457.20 | -45.00 | 0.00 | 51.081 | 8.782 | 5.223 | 280.6 | 639.8 | 390.6 | 381.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.194 | 9.767 | 5.787 | 280.6 | 640.3 | 399.1 | 388.4 |
| 17 | 457.20 | -35.00 | 0.00 | 50.983 | 11.168 | 6.440 | 280.7 | 638.7 | 406.4 | 394.1 |
| 18 | 457.20 | -30.00 | 0.00 | 50.928 | 12.370 | 7.217 | 280.7 | 642.4 | 414.9 | 401.1 |
| 19 | 457.20 | -25.00 | 0.00 | 50.968 | 13.614 | 7.837 | 280.7 | 642.5 | 422.2 | 406.9 |
| 20 | 457.20 | -20.00 | 0.00 | 51.018 | 14.824 | 8.529 | 280.7 | 640.0 | 426.1 | 409.4 |
| 21 | 457.20 | -15.00 | 0.00 | 51.065 | 15.671 | 9.097 | 280.8 | 637.4 | 432.3 | 414.5 |
| 22 | 457.20 | -10.00 | 0.00 | 50.803 | 16.251 | 9.383 | 280.9 | 641.3 | 436.6 | 418.0 |
| 23 | 457.20 | -5.00 | 0.00 | 50.977 | 16.702 | 9.771 | 280.7 | 642.0 | 438.3 | 419.2 |
| 24 | 457.20 | 0.00 | 0.00 | 50.778 | 16.885 | 9.815 | 280.7 | 643.2 | 440.8 | 421.4 |
| 25 | 457.20 | 5.00 | 0.00 | 51.211 | 16.828 | 9.770 | 280.7 | 642.7 | 439.5 | 420.2 |
| 26 | 457.20 | 10.00 | 0.00 | 50.871 | 16.472 | 9.590 | 280.7 | 641.4 | 435.7 | 416.9 |
| 27 | 457.20 | 15.00 | 0.00 | 51.080 | 15.957 | 9.207 | 280.7 | 640.1 | 432.8 | 414.7 |
| 28 | 457.20 | 20.00 | 0.00 | 50.831 | 14.964 | 8.680 | 280.7 | 639.6 | 428.8 | 411.8 |

File : TAB356T 2-MAR-89
2-MAR-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 655 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 13
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.765 kPa

Mean gauged plenum pressure : 51.097 kPa
RMS gauged plenum pressure : 0.292 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 660.40 | 0.00 | 0.00 | 51.033 | 8.645 | 5.025 | 284.7 | 655.3 | 395.8 | 386.4 |
| 2 | 660.40 | -160.00 | 0.00 | 51.428 | 0.014 | 0.012 | 284.6 | 654.3 | 299.8 | 299.8 |
| 3 | 660.40 | -152.00 | 0.00 | 51.325 | 0.014 | 0.012 | 284.6 | 654.5 | 296.5 | 296.5 |
| 4 | 660.40 | -144.00 | 0.00 | 50.901 | 0.025 | 0.032 | 284.6 | 654.8 | 300.2 | 300.2 |
| 5 | 660.40 | -136.00 | 0.00 | 50.764 | 0.098 | 0.065 | 284.6 | 655.8 | 304.6 | 304.5 |
| 6 | 660.40 | -128.00 | 0.00 | 51.096 | 0.185 | 0.122 | 284.6 | 654.3 | 309.2 | 309.0 |
| 7 | 660.40 | -120.00 | 0.00 | 51.357 | 0.331 | 0.243 | 284.7 | 652.7 | 315.0 | 314.7 |
| 8 | 660.40 | -112.00 | 0.00 | 51.275 | 0.653 | 0.397 | 284.6 | 652.5 | 320.2 | 319.6 |
| 9 | 660.40 | -104.00 | 0.00 | 50.760 | 0.915 | 0.546 | 284.6 | 653.0 | 325.8 | 324.9 |
| 10 | 660.40 | -96.00 | 0.00 | 51.148 | 1.371 | 0.778 | 284.5 | 651.9 | 331.0 | 329.7 |
| 11 | 660.40 | -88.00 | 0.00 | 51.279 | 2.058 | 1.181 | 284.5 | 650.0 | 338.6 | 336.6 |
| 12 | 660.40 | -80.00 | 0.00 | 51.316 | 2.461 | 1.461 | 284.5 | 648.8 | 344.9 | 342.5 |
| 13 | 660.40 | -72.00 | 0.00 | 50.972 | 3.222 | 1.874 | 284.5 | 651.3 | 353.3 | 350.1 |
| 14 | 660.40 | -64.00 | 0.00 | 50.356 | 3.942 | 2.338 | 284.5 | 650.3 | 358.8 | 354.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 660.40 | -56.00 | 0.00 | 51.003 | 4.830 | 2.822 | 284.5 | 654.1 | 366.2 | 361.2 |
| 16 | 660.40 | -48.00 | 0.00 | 51.310 | 5.627 | 3.297 | 284.5 | 654.9 | 372.6 | 366.7 |
| 17 | 660.40 | -40.00 | 0.00 | 51.055 | 6.560 | 3.779 | 284.5 | 653.9 | 379.3 | 372.4 |
| 18 | 660.40 | -32.00 | 0.00 | 51.443 | 7.204 | 4.164 | 284.4 | 652.6 | 384.0 | 376.3 |
| 19 | 660.40 | -24.00 | 0.00 | 51.393 | 7.853 | 4.580 | 284.4 | 652.4 | 388.4 | 380.0 |
| 20 | 660.40 | -16.00 | 0.00 | 50.732 | 8.174 | 4.697 | 284.4 | 653.9 | 391.9 | 383.1 |
| 21 | 660.40 | -8.00 | 0.00 | 51.376 | 8.645 | 5.036 | 284.5 | 652.2 | 393.8 | 384.4 |
| 22 | 660.40 | 0.00 | 0.00 | 51.348 | 8.787 | 5.086 | 284.4 | 648.4 | 394.6 | 385.1 |
| 23 | 660.40 | 8.00 | 0.00 | 51.196 | 8.647 | 5.023 | 284.4 | 648.0 | 393.1 | 383.8 |
| 24 | 660.40 | 16.00 | 0.00 | 50.670 | 8.281 | 4.845 | 284.5 | 646.7 | 391.9 | 383.0 |
| 25 | 660.40 | 24.00 | 0.00 | 50.797 | 7.834 | 4.568 | 284.4 | 649.4 | 390.1 | 381.7 |
| 26 | 660.40 | 32.00 | 0.00 | 51.149 | 7.316 | 4.299 | 284.4 | 653.4 | 386.1 | 378.3 |
| 27 | 660.40 | 40.00 | 0.00 | 51.151 | 6.530 | 3.814 | 284.4 | 654.1 | 381.6 | 374.7 |
| 28 | 660.40 | 48.00 | 0.00 | 51.189 | 5.748 | 3.359 | 284.4 | 654.5 | 376.2 | 370.1 |
| 29 | 660.40 | 56.00 | 0.00 | 51.149 | 4.967 | 2.801 | 284.4 | 654.8 | 368.4 | 363.2 |
| 30 | 660.40 | 64.00 | 0.00 | 50.913 | 4.109 | 2.438 | 284.3 | 655.3 | 364.0 | 359.8 |
| 31 | 660.40 | 72.00 | 0.00 | 51.197 | 3.065 | 1.757 | 284.4 | 653.4 | 353.0 | 349.9 |
| 32 | 660.40 | 80.00 | 0.00 | 51.083 | 2.625 | 1.489 | 284.4 | 652.6 | 347.9 | 345.3 |
| 33 | 660.40 | 88.00 | 0.00 | 51.217 | 1.728 | 1.053 | 284.3 | 652.8 | 340.3 | 338.6 |
| 34 | 660.40 | 96.00 | 0.00 | 50.788 | 1.352 | 0.850 | 284.3 | 654.1 | 335.7 | 334.4 |
| 35 | 660.40 | 104.00 | 0.00 | 50.736 | 0.852 | 0.528 | 284.3 | 654.8 | 328.0 | 327.2 |
| 36 | 660.40 | 112.00 | 0.00 | 51.285 | 0.656 | 0.399 | 284.3 | 652.5 | 322.7 | 322.1 |
| 37 | 660.40 | 120.00 | 0.00 | 51.278 | 0.386 | 0.211 | 284.3 | 651.2 | 317.2 | 316.8 |
| 38 | 660.40 | 128.00 | 0.00 | 51.033 | 0.176 | 0.099 | 284.3 | 650.7 | 311.6 | 311.4 |
| 39 | 660.40 | 136.00 | 0.00 | 50.863 | 0.060 | 0.069 | 284.2 | 651.6 | 306.5 | 306.4 |
| 40 | 660.40 | 144.00 | 0.00 | 51.083 | 0.033 | 0.044 | 284.2 | 651.2 | 302.5 | 302.5 |
| 41 | 660.40 | 152.00 | 0.00 | 51.421 | 0.013 | 0.019 | 284.2 | 649.0 | 297.7 | 297.7 |
| 42 | 660.40 | 160.00 | 0.00 | 51.561 | 0.012 | 0.017 | 284.3 | 647.2 | 293.5 | 293.5 |

File : TAB355T 2-MAR-89
2-MAR-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 655 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 13
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.765 kPa

Mean gauged plenum pressure : 51.099 kPa
RMS gauged plenum pressure : 0.350 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | 0.00 | -120.00 | 51.366 | 0.024 | 0.012 | 284.9 | 652.3 | 303.0 | 303.0 |
| 3 | 660.40 | 0.00 | -116.00 | 51.438 | 0.025 | 0.024 | 285.0 | 652.2 | 301.6 | 301.6 |
| 4 | 660.40 | 0.00 | -112.00 | 51.012 | 0.044 | 0.016 | 284.9 | 652.0 | 303.4 | 303.4 |
| 5 | 660.40 | 0.00 | -108.00 | 50.982 | 0.079 | 0.056 | 284.8 | 652.1 | 306.3 | 306.2 |
| 6 | 660.40 | 0.00 | -104.00 | 51.264 | 0.105 | 0.061 | 284.9 | 650.3 | 309.1 | 309.0 |
| 7 | 660.40 | 0.00 | -100.00 | 51.705 | 0.164 | 0.085 | 284.8 | 649.7 | 312.4 | 312.3 |
| 8 | 660.40 | 0.00 | -96.00 | 51.186 | 0.251 | 0.136 | 284.9 | 651.0 | 315.5 | 315.3 |
| 9 | 660.40 | 0.00 | -92.00 | 50.566 | 0.323 | 0.173 | 284.9 | 651.5 | 319.3 | 319.0 |
| 10 | 660.40 | 0.00 | -88.00 | 50.306 | 0.371 | 0.223 | 284.9 | 654.0 | 321.9 | 321.6 |
| 11 | 660.40 | 0.00 | -84.00 | 50.712 | 0.490 | 0.325 | 284.9 | 652.9 | 325.6 | 325.1 |
| 12 | 660.40 | 0.00 | -80.00 | 51.148 | 0.663 | 0.374 | 284.8 | 650.7 | 328.7 | 328.1 |
| 13 | 660.40 | 0.00 | -76.00 | 51.238 | 0.861 | 0.494 | 284.8 | 650.7 | 333.0 | 332.2 |
| 14 | 660.40 | 0.00 | -72.00 | 50.791 | 1.006 | 0.594 | 284.8 | 652.8 | 336.6 | 335.6 |
| 15 | 660.40 | 0.00 | -68.00 | 51.418 | 1.240 | 0.755 | 284.8 | 651.5 | 340.5 | 339.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | 0.00 | -64.00 | 51.324 | 1.594 | 0.906 | 284.8 | 650.2 | 344.1 | 342.5 |
| 17 | 660.40 | 0.00 | -60.00 | 51.347 | 1.873 | 1.094 | 284.8 | 649.0 | 348.8 | 346.9 |
| 18 | 660.40 | 0.00 | -56.00 | 50.733 | 2.219 | 1.283 | 284.8 | 650.9 | 352.5 | 350.3 |
| 19 | 660.40 | 0.00 | -52.00 | 50.671 | 2.570 | 1.459 | 284.8 | 651.7 | 357.3 | 354.7 |
| 20 | 660.40 | 0.00 | -48.00 | 51.074 | 3.019 | 1.774 | 284.8 | 650.7 | 361.2 | 358.1 |
| 21 | 660.40 | 0.00 | -44.00 | 51.606 | 3.589 | 2.091 | 284.8 | 649.1 | 364.3 | 360.6 |
| 22 | 660.40 | 0.00 | -40.00 | 51.040 | 4.005 | 2.315 | 284.7 | 650.1 | 369.8 | 365.6 |
| 23 | 660.40 | 0.00 | -36.00 | 50.535 | 4.608 | 2.637 | 284.7 | 654.6 | 374.4 | 369.5 |
| 24 | 660.40 | 0.00 | -32.00 | 51.150 | 5.254 | 3.022 | 284.7 | 653.9 | 377.9 | 372.3 |
| 25 | 660.40 | 0.00 | -28.00 | 51.212 | 5.928 | 3.397 | 284.8 | 652.5 | 382.4 | 376.1 |
| 26 | 660.40 | 0.00 | -24.00 | 51.510 | 6.480 | 3.757 | 284.7 | 651.6 | 385.0 | 378.0 |
| 27 | 660.40 | 0.00 | -20.00 | 50.961 | 7.121 | 4.133 | 284.7 | 652.5 | 388.1 | 380.4 |
| 28 | 660.40 | 0.00 | -16.00 | 50.591 | 7.538 | 4.327 | 284.7 | 654.3 | 391.1 | 382.9 |
| 29 | 660.40 | 0.00 | -12.00 | 51.460 | 8.108 | 4.714 | 284.7 | 651.4 | 392.0 | 383.2 |
| 30 | 660.40 | 0.00 | -8.00 | 51.289 | 8.488 | 4.936 | 284.7 | 650.4 | 393.0 | 383.8 |
| 31 | 660.40 | 0.00 | -4.00 | 51.157 | 8.700 | 5.015 | 284.7 | 648.7 | 394.4 | 385.0 |
| 32 | 660.40 | 0.00 | 0.00 | 51.131 | 8.735 | 5.043 | 284.7 | 651.9 | 395.1 | 385.6 |
| 33 | 660.40 | 0.00 | 4.00 | 51.073 | 8.692 | 5.016 | 284.7 | 649.6 | 395.6 | 386.2 |
| 34 | 660.40 | 0.00 | 8.00 | 51.484 | 8.464 | 4.890 | 284.8 | 648.1 | 393.3 | 384.1 |
| 35 | 660.40 | 0.00 | 12.00 | 51.381 | 8.118 | 4.708 | 284.7 | 647.4 | 391.4 | 382.6 |
| 36 | 660.40 | 0.00 | 16.00 | 50.798 | 7.474 | 4.342 | 284.8 | 654.3 | 392.3 | 384.2 |
| 37 | 660.40 | 0.00 | 20.00 | 51.011 | 6.913 | 4.042 | 284.8 | 655.7 | 388.8 | 381.3 |

File : TAB340T 25-FEB-89
25-FEB-89

Reduced experimental data file

*HORIZONTAL PROFILE*

Unexcited, heated jet, Mj = 0.8, Tt = 621 K
DRPTAB, PLTTAB
I-B

C1 : X/D = 5
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.815 kPa

Mean gauged plenum pressure : 51.163 kPa
RMS gauged plenum pressure : 0.353 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | 0.00 | 51.144 | 0.210 | 0.136 | 273.1 | 621.0 | 296.9 | 296.7 |
| 3 | 254.00 | -96.00 | 0.00 | 51.173 | 0.357 | 0.214 | 273.2 | 619.7 | 299.8 | 299.5 |
| 4 | 254.00 | -92.00 | 0.00 | 50.659 | 0.726 | 0.441 | 273.3 | 620.6 | 308.4 | 307.8 |
| 5 | 254.00 | -88.00 | 0.00 | 50.833 | 1.382 | 0.782 | 273.3 | 620.1 | 314.6 | 313.4 |
| 6 | 254.00 | -84.00 | 0.00 | 51.310 | 1.973 | 1.085 | 273.3 | 618.6 | 322.1 | 320.3 |
| 7 | 254.00 | -80.00 | 0.00 | 51.531 | 2.971 | 1.730 | 273.4 | 617.0 | 330.8 | 328.0 |
| 8 | 254.00 | -76.00 | 0.00 | 50.965 | 3.770 | 2.159 | 273.6 | 617.6 | 340.8 | 337.2 |
| 9 | 254.00 | -72.00 | 0.00 | 50.631 | 5.192 | 2.989 | 273.5 | 618.4 | 351.8 | 346.7 |
| 10 | 254.00 | -68.00 | 0.00 | 51.358 | 6.638 | 3.896 | 273.5 | 616.5 | 367.3 | 360.6 |
| 11 | 254.00 | -64.00 | 0.00 | 51.638 | 8.446 | 4.971 | 273.6 | 617.5 | 378.6 | 369.9 |
| 12 | 254.00 | -60.00 | 0.00 | 51.121 | 10.580 | 6.142 | 273.6 | 627.5 | 394.5 | 383.3 |
| 13 | 254.00 | -56.00 | 0.00 | 50.545 | 12.925 | 7.479 | 273.7 | 623.5 | 408.5 | 394.5 |
| 14 | 254.00 | -52.00 | 0.00 | 51.514 | 16.204 | 9.337 | 273.8 | 619.9 | 426.5 | 408.6 |
| 15 | 254.00 | -48.00 | 0.00 | 51.834 | 20.000 | 11.559 | 273.8 | 618.7 | 441.8 | 419.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -44.00 | 0.00 | 51.299 | 23.548 | 13.563 | 273.8 | 618.3 | 459.1 | 432.3 |
| 17 | 254.00 | -40.00 | 0.00 | 50.695 | 27.759 | 16.037 | 273.8 | 619.2 | 478.5 | 446.3 |
| 18 | 254.00 | -36.00 | 0.00 | 51.005 | 31.886 | 18.501 | 273.8 | 618.5 | 493.1 | 455.8 |
| 19 | 254.00 | -32.00 | 0.00 | 51.391 | 35.811 | 20.773 | 273.8 | 616.3 | 505.6 | 463.6 |
| 20 | 254.00 | -28.00 | 0.00 | 51.089 | 36.409 | 21.075 | 273.8 | 616.5 | 508.2 | 465.4 |
| 21 | 254.00 | -24.00 | 0.00 | 50.809 | 33.814 | 19.596 | 273.8 | 620.9 | 504.5 | 464.5 |
| 22 | 254.00 | -20.00 | 0.00 | 51.369 | 28.573 | 16.345 | 273.8 | 620.1 | 486.4 | 452.9 |
| 23 | 254.00 | -16.00 | 0.00 | 51.768 | 22.689 | 13.174 | 273.8 | 618.5 | 468.1 | 441.6 |
| 24 | 254.00 | -12.00 | 0.00 | 51.391 | 17.351 | 10.049 | 273.9 | 617.9 | 448.6 | 428.6 |
| 25 | 254.00 | -8.00 | 0.00 | 50.943 | 13.751 | 7.936 | 274.1 | 619.0 | 433.0 | 417.4 |
| 26 | 254.00 | -4.00 | 0.00 | 50.913 | 12.303 | 7.101 | 274.3 | 619.6 | 427.8 | 413.8 |
| 27 | 254.00 | 0.00 | 0.00 | 51.409 | 12.383 | 7.195 | 274.2 | 617.7 | 428.1 | 414.1 |
| 28 | 254.00 | 4.00 | 0.00 | 51.315 | 14.213 | 8.198 | 274.1 | 617.5 | 435.5 | 419.3 |
| 29 | 254.00 | 8.00 | 0.00 | 50.683 | 17.676 | 10.247 | 274.1 | 618.8 | 453.0 | 432.5 |
| 30 | 254.00 | 12.00 | 0.00 | 51.203 | 23.043 | 13.336 | 274.2 | 617.8 | 471.6 | 444.6 |
| 31 | 254.00 | 16.00 | 0.00 | 51.768 | 30.531 | 17.748 | 274.3 | 615.6 | 494.1 | 458.1 |
| 32 | 254.00 | 20.00 | 0.00 | 51.486 | 36.422 | 21.123 | 274.4 | 615.2 | 509.4 | 466.5 |
| 33 | 254.00 | 24.00 | 0.00 | 51.174 | 37.196 | 21.644 | 274.4 | 618.1 | 511.2 | 467.4 |
| 34 | 254.00 | 28.00 | 0.00 | 50.955 | 34.140 | 19.785 | 274.3 | 619.9 | 502.8 | 462.6 |
| 35 | 254.00 | 32.00 | 0.00 | 51.467 | 28.795 | 16.597 | 274.4 | 618.8 | 481.5 | 448.1 |
| 36 | 254.00 | 36.00 | 0.00 | 51.597 | 22.924 | 13.340 | 274.2 | 617.6 | 461.0 | 434.7 |
| 37 | 254.00 | 40.00 | 0.00 | 51.017 | 17.201 | 10.050 | 274.3 | 618.2 | 440.8 | 421.3 |
| 38 | 254.00 | 44.00 | 0.00 | 50.812 | 13.366 | 7.770 | 274.4 | 619.2 | 418.3 | 403.5 |
| 39 | 254.00 | 48.00 | 0.00 | 51.360 | 10.852 | 6.269 | 274.5 | 617.6 | 402.3 | 390.6 |
| 40 | 254.00 | 52.00 | 0.00 | 51.640 | 8.903 | 4.985 | 274.6 | 615.6 | 392.5 | 383.0 |
| 41 | 254.00 | 56.00 | 0.00 | 51.232 | 7.105 | 3.958 | 274.6 | 616.1 | 374.1 | 366.8 |
| 42 | 254.00 | 60.00 | 0.00 | 50.710 | 5.439 | 3.276 | 274.5 | 616.8 | 363.2 | 357.7 |
| 43 | 254.00 | 64.00 | 0.00 | 51.124 | 4.547 | 2.555 | 274.4 | 616.4 | 353.1 | 348.6 |
| 44 | 254.00 | 68.00 | 0.00 | 51.529 | 3.749 | 2.124 | 274.2 | 614.8 | 342.6 | 339.0 |
| 45 | 254.00 | 72.00 | 0.00 | 51.131 | 2.639 | 1.523 | 274.1 | 616.3 | 333.8 | 331.3 |
| 46 | 254.00 | 76.00 | 0.00 | 50.607 | 1.796 | 1.091 | 274.4 | 618.1 | 323.6 | 321.9 |
| 47 | 254.00 | 80.00 | 0.00 | 51.157 | 1.357 | 0.743 | 274.6 | 618.2 | 318.3 | 317.1 |
| 48 | 254.00 | 84.00 | 0.00 | 51.398 | 0.707 | 0.426 | 274.6 | 616.0 | 310.6 | 310.0 |
| 49 | 254.00 | 88.00 | 0.00 | 51.064 | 0.416 | 0.268 | 274.7 | 615.4 | 303.4 | 303.0 |
| 50 | 254.00 | 92.00 | 0.00 | 50.832 | 0.162 | 0.072 | 274.6 | 617.9 | 298.3 | 298.2 |
| 51 | 254.00 | 96.00 | 0.00 | 50.970 | 0.041 | 0.036 | 274.7 | 618.8 | 291.1 | 291.1 |
| 52 | 254.00 | 100.00 | 0.00 | 51.427 | 0.013 | 0.011 | 274.9 | 616.4 | 286.2 | 286.2 |

File : TAB339T 25-FEB-89
25-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 621 K
DRPTAB, PLTTAB
0-0

C1 : X/D = 5
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.781 kPa

Mean gauged plenum pressure : 51.171 kPa
RMS gauged plenum pressure : 0.351 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | 0.00 | -40.00 | 51.309 | 0.509 | 0.310 | 270.5 | 628.8 | 314.0 | 313.5 |
| 3 | 254.00 | 0.00 | -39.00 | 51.733 | 0.601 | 0.318 | 270.6 | 628.0 | 311.8 | 311.3 |
| 4 | 254.00 | 0.00 | -38.00 | 51.292 | 0.729 | 0.423 | 270.6 | 628.3 | 317.7 | 317.0 |
| 5 | 254.00 | 0.00 | -37.00 | 50.902 | 0.793 | 0.514 | 270.8 | 629.7 | 320.1 | 319.4 |
| 6 | 254.00 | 0.00 | -36.00 | 51.175 | 0.968 | 0.556 | 270.7 | 627.8 | 322.1 | 321.2 |
| 7 | 254.00 | 0.00 | -35.00 | 51.280 | 1.084 | 0.636 | 270.6 | 623.4 | 325.6 | 324.6 |
| 8 | 254.00 | 0.00 | -34.00 | 50.775 | 1.367 | 0.839 | 270.7 | 622.5 | 327.7 | 326.4 |
| 9 | 254.00 | 0.00 | -33.00 | 50.706 | 1.523 | 0.835 | 270.7 | 622.3 | 332.3 | 330.9 |
| 10 | 254.00 | 0.00 | -32.00 | 51.091 | 1.818 | 1.025 | 270.7 | 620.9 | 335.4 | 333.7 |
| 11 | 254.00 | 0.00 | -31.00 | 51.391 | 2.100 | 1.220 | 270.8 | 619.5 | 338.9 | 336.9 |
| 12 | 254.00 | 0.00 | -30.00 | 51.101 | 2.265 | 1.284 | 270.8 | 619.0 | 339.9 | 337.7 |
| 13 | 254.00 | 0.00 | -29.00 | 50.616 | 2.743 | 1.594 | 270.9 | 619.7 | 344.7 | 342.0 |
| 14 | 254.00 | 0.00 | -28.00 | 50.712 | 2.798 | 1.597 | 271.0 | 619.4 | 345.9 | 343.2 |
| 15 | 254.00 | 0.00 | -27.00 | 51.163 | 3.069 | 1.786 | 271.0 | 617.4 | 349.2 | 346.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | 0.00 | -26.00 | 51.271 | 3.606 | 2.052 | 271.1 | 620.9 | 358.8 | 355.2 |
| 17 | 254.00 | 0.00 | -25.00 | 50.898 | 3.838 | 2.264 | 271.0 | 624.7 | 360.0 | 356.1 |
| 18 | 254.00 | 0.00 | -24.00 | 51.124 | 3.981 | 2.345 | 270.9 | 625.1 | 363.2 | 359.1 |
| 19 | 254.00 | 0.00 | -23.00 | 51.694 | 4.610 | 2.645 | 271.0 | 625.3 | 366.6 | 361.9 |
| 20 | 254.00 | 0.00 | -22.00 | 51.361 | 4.997 | 2.901 | 271.2 | 623.2 | 369.9 | 364.7 |
| 21 | 254.00 | 0.00 | -21.00 | 50.749 | 5.732 | 3.234 | 271.2 | 622.7 | 377.4 | 371.4 |
| 22 | 254.00 | 0.00 | -20.00 | 51.412 | 5.754 | 3.434 | 271.2 | 620.0 | 377.5 | 371.5 |
| 23 | 254.00 | 0.00 | -19.00 | 51.517 | 6.151 | 3.484 | 271.2 | 619.7 | 380.0 | 373.5 |
| 24 | 254.00 | 0.00 | -18.00 | 51.047 | 6.785 | 3.964 | 271.1 | 620.2 | 388.6 | 381.3 |
| 25 | 254.00 | 0.00 | -17.00 | 50.493 | 6.869 | 4.160 | 271.2 | 620.6 | 390.7 | 383.3 |
| 26 | 254.00 | 0.00 | -16.00 | 50.633 | 7.618 | 4.510 | 271.4 | 620.1 | 392.7 | 384.5 |
| 27 | 254.00 | 0.00 | -15.00 | 51.475 | 7.968 | 4.589 | 271.4 | 617.8 | 397.4 | 388.8 |
| 28 | 254.00 | 0.00 | -14.00 | 51.565 | 8.199 | 4.786 | 271.4 | 620.1 | 397.8 | 388.9 |
| 29 | 254.00 | 0.00 | -13.00 | 51.023 | 9.370 | 5.358 | 271.5 | 621.7 | 403.2 | 393.0 |
| 30 | 254.00 | 0.00 | -12.00 | 51.414 | 9.152 | 5.335 | 271.4 | 623.1 | 405.6 | 395.5 |
| 31 | 254.00 | 0.00 | -11.00 | 51.776 | 9.731 | 5.645 | 271.6 | 620.8 | 409.3 | 398.6 |
| 32 | 254.00 | 0.00 | -10.00 | 51.599 | 10.083 | 5.937 | 271.6 | 620.6 | 409.4 | 398.3 |
| 33 | 254.00 | 0.00 | -9.00 | 51.114 | 10.553 | 6.099 | 271.7 | 622.1 | 414.5 | 402.8 |
| 34 | 254.00 | 0.00 | -8.00 | 51.299 | 10.883 | 6.333 | 271.7 | 622.5 | 415.7 | 403.6 |
| 35 | 254.00 | 0.00 | -7.00 | 51.687 | 11.312 | 6.613 | 271.7 | 620.5 | 420.4 | 407.7 |
| 36 | 254.00 | 0.00 | -6.00 | 51.410 | 11.481 | 6.678 | 271.7 | 619.8 | 420.3 | 407.4 |
| 37 | 254.00 | 0.00 | -5.00 | 50.725 | 11.670 | 6.749 | 271.8 | 620.5 | 423.7 | 410.5 |
| 38 | 254.00 | 0.00 | -4.00 | 50.842 | 11.906 | 6.908 | 271.8 | 620.6 | 424.4 | 411.0 |
| 39 | 254.00 | 0.00 | -3.00 | 51.301 | 12.255 | 7.034 | 271.9 | 618.8 | 427.4 | 413.5 |
| 40 | 254.00 | 0.00 | -2.00 | 50.995 | 12.523 | 7.221 | 272.0 | 618.7 | 428.2 | 414.0 |
| 41 | 254.00 | 0.00 | -1.00 | 50.836 | 12.477 | 7.234 | 272.0 | 619.2 | 429.5 | 415.3 |
| 42 | 254.00 | 0.00 | 0.00 | 51.108 | 12.718 | 7.384 | 272.1 | 618.6 | 429.8 | 415.3 |
| 43 | 254.00 | 0.00 | 1.00 | 51.520 | 12.679 | 7.377 | 272.0 | 616.4 | 427.2 | 412.9 |
| 44 | 254.00 | 0.00 | 2.00 | 51.308 | 12.702 | 7.360 | 272.1 | 615.9 | 427.1 | 412.7 |
| 45 | 254.00 | 0.00 | 3.00 | 50.733 | 12.558 | 7.235 | 272.3 | 616.5 | 427.8 | 413.6 |
| 46 | 254.00 | 0.00 | 4.00 | 51.382 | 12.507 | 7.187 | 272.2 | 615.5 | 424.6 | 410.5 |
| 47 | 254.00 | 0.00 | 5.00 | 51.608 | 12.360 | 7.197 | 272.3 | 617.8 | 425.8 | 411.8 |
| 48 | 254.00 | 0.00 | 6.00 | 51.410 | 12.192 | 7.086 | 272.4 | 617.7 | 425.2 | 411.4 |
| 49 | 254.00 | 0.00 | 7.00 | 50.915 | 11.882 | 6.882 | 272.4 | 618.8 | 424.3 | 410.9 |
| 50 | 254.00 | 0.00 | 8.00 | 51.058 | 11.713 | 6.900 | 272.5 | 619.0 | 423.5 | 410.3 |
| 51 | 254.00 | 0.00 | 9.00 | 51.626 | 11.537 | 6.745 | 272.6 | 617.5 | 419.6 | 406.7 |
| 52 | 254.00 | 0.00 | 10.00 | 51.363 | 11.007 | 6.430 | 272.5 | 617.6 | 418.3 | 406.0 |

File : TAB344T 25-FEB-89
25-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 650 K
DRPTAB, PLTDMN, -14 DEG
I-B

C1 : X/D = 5
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.510 kPa

Mean gauged plenum pressure : 51.315 kPa
RMS gauged plenum pressure : 0.449 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | 0.00 | 50.984 | 0.044 | 0.045 | 284.1 | 651.9 | 304.2 | 304.2 |
| 3 | 254.00 | -96.00 | 0.00 | 51.254 | 0.080 | 0.067 | 284.2 | 650.8 | 303.2 | 303.1 |
| 4 | 254.00 | -92.00 | 0.00 | 51.820 | 0.165 | 0.141 | 284.7 | 648.7 | 310.9 | 310.8 |
| 5 | 254.00 | -88.00 | 0.00 | 52.107 | 0.514 | 0.337 | 284.5 | 646.6 | 315.0 | 314.5 |
| 6 | 254.00 | -84.00 | 0.00 | 50.831 | 0.615 | 0.398 | 284.3 | 649.3 | 321.8 | 321.2 |
| 7 | 254.00 | -80.00 | 0.00 | 50.253 | 1.315 | 0.726 | 284.5 | 651.5 | 331.2 | 329.9 |
| 8 | 254.00 | -76.00 | 0.00 | 50.563 | 2.125 | 1.264 | 284.4 | 653.0 | 342.9 | 340.8 |
| 9 | 254.00 | -72.00 | 0.00 | 51.459 | 3.134 | 1.717 | 284.5 | 650.6 | 353.0 | 349.9 |
| 10 | 254.00 | -68.00 | 0.00 | 51.145 | 3.762 | 2.293 | 284.8 | 649.8 | 363.1 | 359.2 |
| 11 | 254.00 | -64.00 | 0.00 | 50.981 | 4.456 | 2.901 | 284.8 | 651.7 | 372.0 | 367.4 |
| 12 | 254.00 | -60.00 | 0.00 | 51.285 | 6.718 | 3.671 | 284.8 | 654.9 | 392.3 | 385.0 |
| 13 | 254.00 | -56.00 | 0.00 | 51.683 | 7.749 | 4.606 | 284.8 | 654.9 | 406.9 | 398.3 |
| 14 | 254.00 | -52.00 | 0.00 | 51.609 | 9.646 | 5.453 | 284.9 | 654.8 | 420.3 | 409.3 |
| 15 | 254.00 | -48.00 | 0.00 | 51.815 | 12.742 | 7.535 | 284.6 | 654.3 | 440.4 | 425.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -44.00 | 0.00 | 50.936 | 16.006 | 9.473 | 284.6 | 655.5 | 459.9 | 440.8 |
| 17 | 254.00 | -40.00 | 0.00 | 51.147 | 20.325 | 11.738 | 284.6 | 656.4 | 479.3 | 454.7 |
| 18 | 254.00 | -36.00 | 0.00 | 51.477 | 25.094 | 14.557 | 284.5 | 655.3 | 499.0 | 468.2 |
| 19 | 254.00 | -32.00 | 0.00 | 51.824 | 30.122 | 17.545 | 284.5 | 654.1 | 515.7 | 478.6 |
| 20 | 254.00 | -28.00 | 0.00 | 51.480 | 32.599 | 18.942 | 284.5 | 653.0 | 522.0 | 481.9 |
| 21 | 254.00 | -24.00 | 0.00 | 51.080 | 31.688 | 18.421 | 284.5 | 653.2 | 520.6 | 481.5 |
| 22 | 254.00 | -20.00 | 0.00 | 51.514 | 28.133 | 16.393 | 284.4 | 652.3 | 505.2 | 470.9 |
| 23 | 254.00 | -16.00 | 0.00 | 51.842 | 22.548 | 13.123 | 284.1 | 649.8 | 488.2 | 460.8 |
| 24 | 254.00 | -12.00 | 0.00 | 51.426 | 17.180 | 9.983 | 284.3 | 649.1 | 469.6 | 448.8 |
| 25 | 254.00 | -8.00 | 0.00 | 50.758 | 13.788 | 7.959 | 284.5 | 651.1 | 454.8 | 438.3 |
| 26 | 254.00 | -4.00 | 0.00 | 50.768 | 12.258 | 7.091 | 284.5 | 651.2 | 446.8 | 432.3 |
| 27 | 254.00 | 0.00 | 0.00 | 51.665 | 12.460 | 7.214 | 284.5 | 649.4 | 447.0 | 432.2 |
| 28 | 254.00 | 4.00 | 0.00 | 51.749 | 14.209 | 8.228 | 284.5 | 648.6 | 456.5 | 439.5 |
| 29 | 254.00 | 8.00 | 0.00 | 51.024 | 17.257 | 9.993 | 284.5 | 650.2 | 470.8 | 449.9 |
| 30 | 254.00 | 12.00 | 0.00 | 50.908 | 22.418 | 12.999 | 284.5 | 650.5 | 490.9 | 463.5 |
| 31 | 254.00 | 16.00 | 0.00 | 51.592 | 29.393 | 16.952 | 284.6 | 648.3 | 511.5 | 475.4 |
| 32 | 254.00 | 20.00 | 0.00 | 51.759 | 34.111 | 19.686 | 284.2 | 646.3 | 521.8 | 480.1 |

File : TAB351T 1-MAR-89
1-MAR-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 650 K
DRPTAB, PLTTAB
I-B

C1 : X/D = 7
C2 : HORIZONTAL
C3 : -2MM
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.544 kPa

Mean gauged plenum pressure : 51.358 kPa
RMS gauged plenum pressure : 0.347 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | -110.00 | -2.00 | 51.330 | 0.154 | 0.085 | 281.5 | 650.5 | 304.5 | 304.4 |
| 3 | 355.60 | -105.00 | -2.00 | 51.433 | 0.355 | 0.229 | 281.5 | 648.8 | 308.7 | 308.4 |
| 4 | 355.60 | -100.00 | -2.00 | 51.622 | 0.641 | 0.389 | 281.6 | 647.1 | 315.7 | 315.1 |
| 5 | 355.60 | -95.00 | -2.00 | 50.996 | 1.148 | 0.681 | 281.6 | 648.7 | 325.8 | 324.7 |
| 6 | 355.60 | -90.00 | -2.00 | 51.149 | 1.635 | 0.971 | 281.5 | 649.1 | 331.5 | 329.9 |
| 7 | 355.60 | -85.00 | -2.00 | 51.476 | 2.561 | 1.450 | 281.6 | 647.5 | 342.0 | 339.5 |
| 8 | 355.60 | -80.00 | -2.00 | 51.736 | 3.608 | 2.107 | 281.5 | 646.9 | 352.4 | 348.8 |
| 9 | 355.60 | -75.00 | -2.00 | 51.406 | 4.749 | 2.777 | 281.6 | 646.9 | 362.8 | 358.0 |
| 10 | 355.60 | -70.00 | -2.00 | 50.825 | 6.116 | 3.550 | 281.5 | 649.5 | 374.4 | 368.0 |
| 11 | 355.60 | -65.00 | -2.00 | 51.422 | 7.661 | 4.469 | 281.6 | 646.8 | 387.2 | 379.1 |
| 12 | 355.60 | -60.00 | -2.00 | 51.730 | 9.564 | 5.597 | 281.6 | 644.7 | 399.7 | 389.3 |
| 13 | 355.60 | -55.00 | -2.00 | 51.516 | 11.556 | 6.676 | 281.6 | 645.0 | 414.9 | 402.1 |
| 14 | 355.60 | -50.00 | -2.00 | 51.120 | 13.524 | 7.799 | 281.7 | 647.8 | 427.0 | 411.8 |
| 15 | 355.60 | -45.00 | -2.00 | 50.919 | 16.004 | 9.233 | 281.6 | 646.9 | 439.5 | 421.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | -40.00 | -2.00 | 51.623 | 18.700 | 10.817 | 281.6 | 644.1 | 449.5 | 428.0 |
| 17 | 355.60 | -35.00 | -2.00 | 51.606 | 20.539 | 11.939 | 281.7 | 647.0 | 458.9 | 435.1 |
| 18 | 355.60 | -30.00 | -2.00 | 51.307 | 21.269 | 12.240 | 281.6 | 648.5 | 463.7 | 438.9 |
| 19 | 355.60 | -25.00 | -2.00 | 51.161 | 20.348 | 11.814 | 281.6 | 646.5 | 460.5 | 436.8 |
| 20 | 355.60 | -20.00 | -2.00 | 51.377 | 18.295 | 10.584 | 281.7 | 645.7 | 453.1 | 431.9 |
| 21 | 355.60 | -15.00 | -2.00 | 51.631 | 15.761 | 9.106 | 281.7 | 648.2 | 447.3 | 429.0 |
| 22 | 355.60 | -10.00 | -2.00 | 51.796 | 13.395 | 7.810 | 281.6 | 648.7 | 437.2 | 421.7 |
| 23 | 355.60 | -5.00 | -2.00 | 51.258 | 11.969 | 6.916 | 281.7 | 650.3 | 433.2 | 419.4 |
| 24 | 355.60 | 0.00 | -2.00 | 50.989 | 11.627 | 6.747 | 281.7 | 650.9 | 432.2 | 418.8 |
| 25 | 355.60 | 5.00 | -2.00 | 51.403 | 12.647 | 7.363 | 281.7 | 651.1 | 436.0 | 421.4 |
| 26 | 355.60 | 10.00 | -2.00 | 51.528 | 14.712 | 8.461 | 281.7 | 650.6 | 445.1 | 428.0 |
| 27 | 355.60 | 15.00 | -2.00 | 51.557 | 17.677 | 10.128 | 281.7 | 650.4 | 456.3 | 435.6 |
| 28 | 355.60 | 20.00 | -2.00 | 50.851 | 20.298 | 11.730 | 281.7 | 652.1 | 462.8 | 439.0 |
| 29 | 355.60 | 25.00 | -2.00 | 50.934 | 21.865 | 12.706 | 281.7 | 652.9 | 469.1 | 443.4 |
| 30 | 355.60 | 30.00 | -2.00 | 51.605 | 21.471 | 12.408 | 281.6 | 650.9 | 464.8 | 439.7 |
| 31 | 355.60 | 35.00 | -2.00 | 51.473 | 18.945 | 10.994 | 281.6 | 649.9 | 454.6 | 432.6 |
| 32 | 355.60 | 40.00 | -2.00 | 51.335 | 15.578 | 9.054 | 281.6 | 650.8 | 441.9 | 424.0 |
| 33 | 355.60 | 45.00 | -2.00 | 50.823 | 12.164 | 7.054 | 281.7 | 651.1 | 426.3 | 412.5 |
| 34 | 355.60 | 50.00 | -2.00 | 51.549 | 9.751 | 5.786 | 281.7 | 648.0 | 410.3 | 399.5 |
| 35 | 355.60 | 55.00 | -2.00 | 51.817 | 7.626 | 4.461 | 281.7 | 646.5 | 392.8 | 384.6 |
| 36 | 355.60 | 60.00 | -2.00 | 51.550 | 6.112 | 3.545 | 281.7 | 646.4 | 381.5 | 375.0 |
| 37 | 355.60 | 65.00 | -2.00 | 51.068 | 4.861 | 2.777 | 281.7 | 647.9 | 368.6 | 363.6 |
| 38 | 355.60 | 70.00 | -2.00 | 51.304 | 3.574 | 1.925 | 281.7 | 646.8 | 356.0 | 352.4 |
| 39 | 355.60 | 75.00 | -2.00 | 51.611 | 2.739 | 1.637 | 281.7 | 645.7 | 349.2 | 346.5 |
| 40 | 355.60 | 80.00 | -2.00 | 51.553 | 1.761 | 1.098 | 281.7 | 644.9 | 339.2 | 337.5 |
| 41 | 355.60 | 85.00 | -2.00 | 51.023 | 1.260 | 0.704 | 281.7 | 649.4 | 330.7 | 329.5 |
| 42 | 355.60 | 90.00 | -2.00 | 51.270 | 0.672 | 0.397 | 281.6 | 650.9 | 321.8 | 321.2 |
| 43 | 355.60 | 95.00 | -2.00 | 51.818 | 0.491 | 0.307 | 281.6 | 649.4 | 316.8 | 316.4 |
| 44 | 355.60 | 100.00 | -2.00 | 51.560 | 0.281 | 0.147 | 281.6 | 649.0 | 310.4 | 310.1 |
| 45 | 355.60 | 105.00 | -2.00 | 51.290 | 0.092 | 0.044 | 281.6 | 649.6 | 305.2 | 305.1 |
| 46 | 355.60 | 110.00 | -2.00 | 50.830 | 0.020 | 0.028 | 281.6 | 650.8 | 299.4 | 299.4 |

File : TAB352T 1-MAR-89
1-MAR-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 650 K
DRPTAB, PLTTAB
I-B

C1 : X/D = 7
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.442 kPa

Mean gauged plenum pressure : 51.276 kPa
RMS gauged plenum pressure : 0.341 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 355.60 | 0.00 | -60.00 | 50.786 | 0.032 | 0.027 | 281.6 | 648.7 | 309.5 | 309.5 |
| 3 | 355.60 | 0.00 | -58.00 | 51.331 | 0.064 | 0.044 | 281.6 | 646.3 | 309.4 | 309.3 |
| 4 | 355.60 | 0.00 | -56.00 | 51.515 | 0.157 | 0.109 | 281.6 | 647.9 | 313.8 | 313.7 |
| 5 | 355.60 | 0.00 | -54.00 | 51.202 | 0.257 | 0.175 | 281.7 | 646.4 | 317.4 | 317.2 |
| 6 | 355.60 | 0.00 | -52.00 | 50.895 | 0.359 | 0.204 | 281.6 | 646.5 | 321.7 | 321.4 |
| 7 | 355.60 | 0.00 | -50.00 | 51.495 | 0.521 | 0.335 | 281.7 | 645.0 | 325.2 | 324.7 |
| 8 | 355.60 | 0.00 | -48.00 | 51.644 | 0.698 | 0.417 | 281.7 | 643.3 | 330.4 | 329.7 |
| 9 | 355.60 | 0.00 | -46.00 | 51.258 | 0.968 | 0.554 | 281.6 | 644.0 | 334.9 | 334.0 |
| 10 | 355.60 | 0.00 | -44.00 | 51.185 | 1.258 | 0.750 | 281.6 | 648.8 | 339.6 | 338.4 |
| 11 | 355.60 | 0.00 | -42.00 | 51.088 | 1.571 | 0.910 | 281.6 | 650.6 | 345.0 | 343.4 |
| 12 | 355.60 | 0.00 | -40.00 | 51.312 | 1.825 | 1.103 | 281.7 | 648.2 | 350.5 | 348.7 |
| 13 | 355.60 | 0.00 | -38.00 | 51.369 | 2.238 | 1.332 | 281.6 | 647.4 | 354.3 | 352.0 |
| 14 | 355.60 | 0.00 | -36.00 | 51.090 | 2.622 | 1.566 | 281.7 | 648.1 | 360.7 | 358.0 |
| 15 | 355.60 | 0.00 | -34.00 | 51.081 | 3.087 | 1.821 | 281.7 | 648.0 | 365.0 | 361.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 355.60 | 0.00 | -32.00 | 51.515 | 3.651 | 2.125 | 281.7 | 646.5 | 372.5 | 368.7 |
| 17 | 355.60 | 0.00 | -30.00 | 51.202 | 4.306 | 2.507 | 281.6 | 644.4 | 377.2 | 372.6 |
| 18 | 355.60 | 0.00 | -28.00 | 50.929 | 4.818 | 2.782 | 281.7 | 645.1 | 381.8 | 376.7 |
| 19 | 355.60 | 0.00 | -26.00 | 50.878 | 5.545 | 3.198 | 281.7 | 645.8 | 386.0 | 380.0 |
| 20 | 355.60 | 0.00 | -24.00 | 51.568 | 6.139 | 3.560 | 281.7 | 642.8 | 393.3 | 386.6 |
| 21 | 355.60 | 0.00 | -22.00 | 51.449 | 6.779 | 3.964 | 281.7 | 642.0 | 398.6 | 391.1 |
| 22 | 355.60 | 0.00 | -20.00 | 51.204 | 7.491 | 4.385 | 281.7 | 648.0 | 404.9 | 396.6 |
| 23 | 355.60 | 0.00 | -18.00 | 51.013 | 8.204 | 4.741 | 281.7 | 650.1 | 411.6 | 402.4 |
| 24 | 355.60 | 0.00 | -16.00 | 51.739 | 8.930 | 5.214 | 281.7 | 649.8 | 414.3 | 404.2 |
| 25 | 355.60 | 0.00 | -14.00 | 51.560 | 9.599 | 5.545 | 281.7 | 648.8 | 419.9 | 409.0 |
| 26 | 355.60 | 0.00 | -12.00 | 51.614 | 10.182 | 5.949 | 281.7 | 646.9 | 422.4 | 410.8 |
| 27 | 355.60 | 0.00 | -10.00 | 50.986 | 10.458 | 6.078 | 281.7 | 647.4 | 424.0 | 412.1 |
| 28 | 355.60 | 0.00 | -8.00 | 51.247 | 10.976 | 6.382 | 281.7 | 646.9 | 426.0 | 413.5 |
| 29 | 355.60 | 0.00 | -6.00 | 51.527 | 11.534 | 6.713 | 281.6 | 644.8 | 428.0 | 414.8 |
| 30 | 355.60 | 0.00 | -4.00 | 51.604 | 11.628 | 6.757 | 281.7 | 643.4 | 429.4 | 416.1 |
| 31 | 355.60 | 0.00 | -2.00 | 51.027 | 11.635 | 6.743 | 281.7 | 645.1 | 430.5 | 417.1 |
| 32 | 355.60 | 0.00 | 0.00 | 51.419 | 11.582 | 6.736 | 281.7 | 647.1 | 430.7 | 417.4 |
| 33 | 355.60 | 0.00 | 2.00 | 51.517 | 11.628 | 6.738 | 281.7 | 648.5 | 430.7 | 417.3 |
| 34 | 355.60 | 0.00 | 4.00 | 51.408 | 11.173 | 6.474 | 281.7 | 649.0 | 428.5 | 415.7 |
| 35 | 355.60 | 0.00 | 6.00 | 50.655 | 10.798 | 6.254 | 281.7 | 651.0 | 426.3 | 413.9 |
| 36 | 355.60 | 0.00 | 8.00 | 50.902 | 10.131 | 5.877 | 281.7 | 651.0 | 424.0 | 412.4 |
| 37 | 355.60 | 0.00 | 10.00 | 51.896 | 9.744 | 5.667 | 281.8 | 647.9 | 420.3 | 409.2 |

File : TAB333T 24-FEB-89
24-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 618 K
DRPTAB, PLTTAB
I-B

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.815 kPa

Mean gauged plenum pressure : 51.384 kPa
RMS gauged plenum pressure : 0.419 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.110 | 0.485 | 0.327 | 268.0 | 616.8 | 300.4 | 300.0 |
| 3 | 457.20 | -105.00 | 0.00 | 51.136 | 0.759 | 0.524 | 268.1 | 617.3 | 304.8 | 304.1 |
| 4 | 457.20 | -100.00 | 0.00 | 51.521 | 1.160 | 0.658 | 268.3 | 616.6 | 309.1 | 308.1 |
| 5 | 457.20 | -95.00 | 0.00 | 51.597 | 1.674 | 0.905 | 268.4 | 616.0 | 315.2 | 313.7 |
| 6 | 457.20 | -90.00 | 0.00 | 51.216 | 2.159 | 1.261 | 268.3 | 615.9 | 324.7 | 322.7 |
| 7 | 457.20 | -85.00 | 0.00 | 51.377 | 2.769 | 1.676 | 268.4 | 615.2 | 329.1 | 326.5 |
| 8 | 457.20 | -80.00 | 0.00 | 51.397 | 3.662 | 2.096 | 268.5 | 616.8 | 336.1 | 332.6 |
| 9 | 457.20 | -75.00 | 0.00 | 51.817 | 4.653 | 2.702 | 268.4 | 615.6 | 344.4 | 339.9 |
| 10 | 457.20 | -70.00 | 0.00 | 51.599 | 5.651 | 3.223 | 268.5 | 616.6 | 355.0 | 349.4 |
| 11 | 457.20 | -65.00 | 0.00 | 51.020 | 6.763 | 3.932 | 268.3 | 616.8 | 361.3 | 354.6 |
| 12 | 457.20 | -60.00 | 0.00 | 50.558 | 7.951 | 4.625 | 268.3 | 618.6 | 372.6 | 364.5 |
| 13 | 457.20 | -55.00 | 0.00 | 51.539 | 9.092 | 5.368 | 268.4 | 617.1 | 377.6 | 368.3 |
| 14 | 457.20 | -50.00 | 0.00 | 51.831 | 10.741 | 6.251 | 268.2 | 615.8 | 385.8 | 374.7 |
| 15 | 457.20 | -45.00 | 0.00 | 52.076 | 11.990 | 6.940 | 268.5 | 613.8 | 391.9 | 379.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.358 | 12.662 | 7.425 | 268.6 | 614.2 | 396.1 | 382.8 |
| 17 | 457.20 | -35.00 | 0.00 | 51.115 | 13.239 | 7.661 | 268.8 | 615.2 | 400.0 | 386.0 |
| 18 | 457.20 | -30.00 | 0.00 | 51.445 | 13.345 | 7.826 | 268.8 | 613.3 | 400.4 | 386.3 |
| 19 | 457.20 | -25.00 | 0.00 | 51.845 | 13.033 | 7.632 | 268.9 | 611.6 | 399.1 | 385.3 |
| 20 | 457.20 | -20.00 | 0.00 | 51.152 | 12.153 | 7.059 | 269.2 | 610.4 | 395.6 | 382.8 |
| 21 | 457.20 | -15.00 | 0.00 | 50.574 | 10.944 | 6.436 | 269.2 | 611.1 | 393.2 | 381.6 |
| 22 | 457.20 | -10.00 | 0.00 | 51.774 | 10.454 | 6.074 | 269.0 | 607.6 | 388.7 | 377.8 |
| 23 | 457.20 | -5.00 | 0.00 | 51.878 | 9.828 | 5.707 | 268.7 | 603.4 | 386.3 | 376.0 |
| 24 | 457.20 | 0.00 | 0.00 | 51.936 | 9.640 | 5.620 | 268.8 | 602.8 | 385.4 | 375.3 |
| 25 | 457.20 | 5.00 | 0.00 | 50.907 | 9.823 | 5.789 | 268.5 | 613.0 | 391.0 | 380.6 |
| 26 | 457.20 | 10.00 | 0.00 | 50.987 | 10.225 | 6.003 | 268.5 | 615.6 | 392.3 | 381.5 |
| 27 | 457.20 | 15.00 | 0.00 | 51.320 | 11.427 | 6.589 | 268.8 | 614.4 | 395.9 | 383.8 |
| 28 | 457.20 | 20.00 | 0.00 | 51.686 | 12.867 | 7.410 | 269.0 | 614.9 | 401.8 | 388.1 |

File : TAB334T 24-FEB-89
24-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 618 K
DRPTAB, PLTTAB
I-B

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.815 kPa

Mean gauged plenum pressure : 51.270 kPa
RMS gauged plenum pressure : 0.379 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.627 | 0.271 | 0.167 | 269.1 | 614.3 | 304.3 | 304.1 |
| 3 | 457.20 | 0.00 | -58.00 | 50.955 | 0.318 | 0.217 | 269.2 | 614.9 | 306.6 | 306.3 |
| 4 | 457.20 | 0.00 | -56.00 | 51.214 | 0.467 | 0.256 | 269.2 | 613.8 | 308.5 | 308.1 |
| 5 | 457.20 | 0.00 | -54.00 | 51.610 | 0.567 | 0.361 | 269.4 | 612.0 | 312.1 | 311.6 |
| 6 | 457.20 | 0.00 | -52.00 | 51.536 | 0.799 | 0.454 | 269.6 | 616.1 | 316.8 | 316.1 |
| 7 | 457.20 | 0.00 | -50.00 | 51.451 | 0.984 | 0.572 | 269.6 | 616.6 | 320.7 | 319.8 |
| 8 | 457.20 | 0.00 | -48.00 | 50.722 | 1.136 | 0.675 | 269.4 | 618.4 | 321.5 | 320.5 |
| 9 | 457.20 | 0.00 | -46.00 | 50.841 | 1.265 | 0.703 | 269.3 | 618.2 | 325.3 | 324.1 |
| 10 | 457.20 | 0.00 | -44.00 | 51.212 | 1.472 | 0.844 | 269.2 | 616.5 | 327.9 | 326.5 |
| 11 | 457.20 | 0.00 | -42.00 | 51.339 | 1.616 | 0.951 | 269.2 | 614.2 | 329.8 | 328.3 |
| 12 | 457.20 | 0.00 | -40.00 | 50.771 | 2.005 | 1.135 | 269.5 | 615.5 | 335.4 | 333.5 |
| 13 | 457.20 | 0.00 | -38.00 | 50.934 | 2.241 | 1.314 | 269.8 | 615.2 | 337.7 | 335.5 |
| 14 | 457.20 | 0.00 | -36.00 | 51.164 | 2.525 | 1.535 | 269.8 | 613.7 | 339.5 | 337.1 |
| 15 | 457.20 | 0.00 | -34.00 | 51.547 | 2.938 | 1.689 | 269.9 | 612.9 | 343.6 | 340.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -32.00 | 51.322 | 3.204 | 1.911 | 270.1 | 612.5 | 347.7 | 344.6 |
| 17 | 457.20 | 0.00 | -30.00 | 50.781 | 3.518 | 2.075 | 269.9 | 616.4 | 351.2 | 347.7 |
| 18 | 457.20 | 0.00 | -28.00 | 51.068 | 4.001 | 2.321 | 269.9 | 616.6 | 356.0 | 352.0 |
| 19 | 457.20 | 0.00 | -26.00 | 51.417 | 4.566 | 2.757 | 270.0 | 614.4 | 359.9 | 355.3 |
| 20 | 457.20 | 0.00 | -24.00 | 51.669 | 4.902 | 2.856 | 270.0 | 612.1 | 360.5 | 355.6 |
| 21 | 457.20 | 0.00 | -22.00 | 51.803 | 5.668 | 3.240 | 270.2 | 610.8 | 367.5 | 361.7 |
| 22 | 457.20 | 0.00 | -20.00 | 51.092 | 5.835 | 3.425 | 270.1 | 617.9 | 369.6 | 363.6 |
| 23 | 457.20 | 0.00 | -18.00 | 50.887 | 6.509 | 3.715 | 270.3 | 621.1 | 373.2 | 366.5 |
| 24 | 457.20 | 0.00 | -16.00 | 50.994 | 6.964 | 3.912 | 270.0 | 619.0 | 376.2 | 369.0 |
| 25 | 457.20 | 0.00 | -14.00 | 51.191 | 7.369 | 4.190 | 270.1 | 617.1 | 379.2 | 371.5 |
| 26 | 457.20 | 0.00 | -12.00 | 51.361 | 8.016 | 4.581 | 270.0 | 615.2 | 381.0 | 372.6 |
| 27 | 457.20 | 0.00 | -10.00 | 50.662 | 8.366 | 4.797 | 269.7 | 615.5 | 385.4 | 376.6 |
| 28 | 457.20 | 0.00 | -8.00 | 51.023 | 8.545 | 4.948 | 269.8 | 614.7 | 383.9 | 375.0 |
| 29 | 457.20 | 0.00 | -6.00 | 51.315 | 8.983 | 5.136 | 270.1 | 611.4 | 385.5 | 376.1 |
| 30 | 457.20 | 0.00 | -4.00 | 51.813 | 9.362 | 5.333 | 270.1 | 612.4 | 388.2 | 378.3 |
| 31 | 457.20 | 0.00 | -2.00 | 51.707 | 9.470 | 5.424 | 270.1 | 615.2 | 390.1 | 380.1 |
| 32 | 457.20 | 0.00 | 0.00 | 51.296 | 9.621 | 5.535 | 270.3 | 615.5 | 391.7 | 381.5 |
| 33 | 457.20 | 0.00 | 2.00 | 50.741 | 9.587 | 5.502 | 270.5 | 617.0 | 391.8 | 381.6 |
| 34 | 457.20 | 0.00 | 4.00 | 51.234 | 9.520 | 5.550 | 270.4 | 614.6 | 391.1 | 381.0 |
| 35 | 457.20 | 0.00 | 6.00 | 51.706 | 9.570 | 5.574 | 270.1 | 616.2 | 391.1 | 381.0 |
| 36 | 457.20 | 0.00 | 8.00 | 51.981 | 9.488 | 5.483 | 269.9 | 615.2 | 389.8 | 379.8 |
| 37 | 457.20 | 0.00 | 10.00 | 51.669 | 9.098 | 5.268 | 270.0 | 614.0 | 388.8 | 379.2 |

File : TAB347T 28-FEB-89
28-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 662 K
DRPTAB, PLTTAB, -14 DEG
I-B

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.596 kPa

Mean gauged plenum pressure : 50.997 kPa
RMS gauged plenum pressure : 0.267 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.238 | 0.236 | 0.172 | 287.9 | 662.8 | 317.4 | 317.2 |
| 3 | 457.20 | -105.00 | 0.00 | 51.365 | 0.427 | 0.276 | 287.8 | 663.0 | 320.6 | 320.2 |
| 4 | 457.20 | -100.00 | 0.00 | 50.894 | 0.843 | 0.490 | 287.9 | 662.1 | 328.9 | 328.1 |
| 5 | 457.20 | -95.00 | 0.00 | 51.375 | 1.031 | 0.630 | 287.9 | 661.5 | 332.6 | 331.6 |
| 6 | 457.20 | -90.00 | 0.00 | 51.215 | 1.333 | 0.835 | 288.0 | 661.8 | 338.2 | 336.9 |
| 7 | 457.20 | -85.00 | 0.00 | 50.710 | 2.014 | 1.187 | 288.0 | 662.4 | 348.4 | 346.4 |
| 8 | 457.20 | -80.00 | 0.00 | 51.039 | 2.720 | 1.566 | 288.0 | 662.6 | 351.1 | 348.4 |
| 9 | 457.20 | -75.00 | 0.00 | 51.029 | 3.401 | 2.157 | 288.2 | 661.7 | 359.1 | 355.6 |
| 10 | 457.20 | -70.00 | 0.00 | 51.174 | 4.456 | 2.721 | 287.9 | 662.5 | 372.9 | 368.2 |
| 11 | 457.20 | -65.00 | 0.00 | 50.779 | 5.672 | 3.240 | 288.0 | 662.4 | 381.5 | 375.4 |
| 12 | 457.20 | -60.00 | 0.00 | 50.745 | 6.725 | 3.995 | 287.9 | 662.4 | 390.4 | 383.1 |
| 13 | 457.20 | -55.00 | 0.00 | 51.066 | 7.658 | 4.552 | 288.0 | 661.5 | 398.6 | 390.2 |
| 14 | 457.20 | -50.00 | 0.00 | 51.276 | 9.104 | 5.336 | 288.1 | 661.2 | 407.5 | 397.3 |
| 15 | 457.20 | -45.00 | 0.00 | 51.137 | 10.340 | 5.982 | 288.1 | 660.8 | 414.3 | 402.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 50.865 | 11.357 | 6.607 | 288.2 | 661.4 | 421.0 | 408.1 |
| 17 | 457.20 | -35.00 | 0.00 | 50.707 | 12.474 | 7.218 | 288.2 | 662.0 | 429.0 | 414.7 |
| 18 | 457.20 | -30.00 | 0.00 | 51.074 | 12.783 | 7.407 | 288.3 | 659.5 | 428.3 | 413.7 |
| 19 | 457.20 | -25.00 | 0.00 | 50.678 | 12.619 | 7.319 | 288.4 | 658.6 | 428.6 | 414.1 |
| 20 | 457.20 | -20.00 | 0.00 | 50.769 | 11.878 | 6.875 | 288.3 | 659.1 | 426.9 | 413.3 |
| 21 | 457.20 | -15.00 | 0.00 | 50.920 | 11.256 | 6.491 | 288.3 | 660.3 | 424.6 | 411.7 |
| 22 | 457.20 | -10.00 | 0.00 | 51.156 | 10.408 | 6.041 | 288.6 | 661.0 | 421.5 | 409.6 |
| 23 | 457.20 | -5.00 | 0.00 | 51.245 | 9.804 | 5.765 | 288.5 | 661.5 | 419.0 | 407.8 |
| 24 | 457.20 | 0.00 | 0.00 | 50.830 | 9.464 | 5.566 | 288.5 | 662.0 | 419.4 | 408.6 |
| 25 | 457.20 | 5.00 | 0.00 | 50.650 | 9.753 | 5.677 | 289.2 | 662.0 | 420.3 | 409.1 |
| 26 | 457.20 | 10.00 | 0.00 | 51.137 | 10.365 | 6.034 | 288.9 | 660.5 | 421.5 | 409.6 |
| 27 | 457.20 | 15.00 | 0.00 | 51.273 | 11.457 | 6.632 | 289.2 | 658.0 | 425.7 | 412.5 |
| 28 | 457.20 | 20.00 | 0.00 | 50.711 | 12.220 | 7.053 | 289.0 | 658.2 | 428.7 | 414.6 |

File : TAB354T 2-MAR-89
2-MAR-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 655 K
DRPTAB, PLTTAB
I-B

C1 : X/D = 13
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.799 kPa

Mean gauged plenum pressure : 51.152 kPa
RMS gauged plenum pressure : 0.377 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | -160.00 | 0.00 | 50.792 | 0.014 | 0.012 | 285.1 | 657.6 | 301.0 | 301.0 |
| 3 | 660.40 | -152.00 | 0.00 | 51.356 | 0.037 | 0.016 | 285.2 | 653.1 | 300.1 | 300.1 |
| 4 | 660.40 | -144.00 | 0.00 | 51.232 | 0.088 | 0.057 | 285.2 | 651.2 | 304.1 | 304.0 |
| 5 | 660.40 | -136.00 | 0.00 | 51.399 | 0.156 | 0.100 | 285.1 | 650.9 | 309.7 | 309.6 |
| 6 | 660.40 | -128.00 | 0.00 | 50.879 | 0.373 | 0.206 | 285.1 | 653.2 | 314.7 | 314.4 |
| 7 | 660.40 | -120.00 | 0.00 | 51.210 | 0.639 | 0.382 | 285.1 | 654.4 | 322.2 | 321.6 |
| 8 | 660.40 | -112.00 | 0.00 | 51.353 | 1.007 | 0.610 | 285.1 | 652.3 | 327.0 | 326.0 |
| 9 | 660.40 | -104.00 | 0.00 | 51.351 | 1.457 | 0.868 | 285.1 | 650.8 | 332.7 | 331.3 |
| 10 | 660.40 | -96.00 | 0.00 | 50.963 | 2.071 | 1.222 | 285.1 | 651.7 | 339.3 | 337.3 |
| 11 | 660.40 | -88.00 | 0.00 | 51.152 | 2.752 | 1.628 | 285.1 | 650.2 | 347.2 | 344.5 |
| 12 | 660.40 | -80.00 | 0.00 | 50.962 | 3.639 | 2.068 | 285.1 | 651.7 | 356.0 | 352.3 |
| 13 | 660.40 | -72.00 | 0.00 | 51.207 | 4.486 | 2.600 | 285.1 | 655.0 | 361.3 | 356.7 |
| 14 | 660.40 | -64.00 | 0.00 | 51.458 | 5.173 | 3.087 | 285.1 | 654.6 | 368.8 | 363.4 |
| 15 | 660.40 | -56.00 | 0.00 | 50.773 | 5.854 | 3.380 | 285.0 | 655.0 | 374.6 | 368.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | -48.00 | 0.00 | 50.559 | 6.136 | 3.627 | 285.0 | 656.9 | 376.2 | 369.7 |
| 17 | 660.40 | -40.00 | 0.00 | 51.493 | 6.467 | 3.738 | 285.0 | 654.8 | 379.6 | 372.8 |
| 18 | 660.40 | -32.00 | 0.00 | 51.755 | 6.382 | 3.771 | 285.1 | 653.5 | 379.7 | 372.9 |
| 19 | 660.40 | -24.00 | 0.00 | 51.996 | 6.337 | 3.699 | 285.0 | 651.6 | 379.1 | 372.4 |
| 20 | 660.40 | -16.00 | 0.00 | 51.329 | 5.961 | 3.459 | 285.0 | 652.4 | 378.6 | 372.3 |
| 21 | 660.40 | -8.00 | 0.00 | 50.990 | 5.747 | 3.326 | 285.1 | 655.0 | 379.5 | 373.4 |
| 22 | 660.40 | 0.00 | 0.00 | 51.534 | 5.745 | 3.377 | 285.1 | 652.9 | 378.6 | 372.5 |
| 23 | 660.40 | 8.00 | 0.00 | 51.207 | 5.831 | 3.399 | 285.0 | 651.5 | 378.5 | 372.3 |
| 24 | 660.40 | 16.00 | 0.00 | 50.686 | 6.119 | 3.516 | 285.1 | 651.2 | 379.7 | 373.2 |
| 25 | 660.40 | 24.00 | 0.00 | 50.435 | 6.341 | 3.730 | 285.1 | 651.2 | 380.8 | 374.1 |
| 26 | 660.40 | 32.00 | 0.00 | 50.978 | 6.686 | 3.846 | 285.1 | 650.4 | 381.1 | 374.0 |
| 27 | 660.40 | 40.00 | 0.00 | 51.468 | 6.873 | 4.002 | 285.1 | 647.5 | 380.6 | 373.3 |
| 28 | 660.40 | 48.00 | 0.00 | 51.301 | 6.563 | 3.782 | 285.1 | 648.1 | 378.0 | 371.1 |
| 29 | 660.40 | 56.00 | 0.00 | 51.046 | 5.955 | 3.459 | 285.1 | 653.2 | 374.2 | 368.0 |
| 30 | 660.40 | 64.00 | 0.00 | 50.996 | 5.338 | 3.071 | 285.1 | 655.2 | 371.0 | 365.4 |
| 31 | 660.40 | 72.00 | 0.00 | 51.435 | 4.417 | 2.529 | 285.0 | 653.9 | 364.4 | 359.8 |
| 32 | 660.40 | 80.00 | 0.00 | 51.393 | 3.495 | 1.977 | 285.1 | 653.4 | 356.8 | 353.3 |
| 33 | 660.40 | 88.00 | 0.00 | 51.033 | 2.679 | 1.595 | 285.1 | 653.3 | 351.3 | 348.6 |
| 34 | 660.40 | 96.00 | 0.00 | 50.865 | 1.961 | 1.108 | 285.0 | 654.6 | 342.6 | 340.7 |
| 35 | 660.40 | 104.00 | 0.00 | 50.924 | 1.160 | 0.742 | 285.0 | 653.5 | 333.6 | 332.5 |
| 36 | 660.40 | 112.00 | 0.00 | 51.219 | 0.883 | 0.478 | 285.0 | 653.3 | 328.7 | 327.9 |
| 37 | 660.40 | 120.00 | 0.00 | 51.286 | 0.587 | 0.347 | 285.0 | 652.2 | 323.7 | 323.1 |
| 38 | 660.40 | 128.00 | 0.00 | 50.947 | 0.370 | 0.205 | 285.0 | 653.4 | 317.0 | 316.7 |
| 39 | 660.40 | 136.00 | 0.00 | 50.726 | 0.129 | 0.095 | 285.0 | 655.6 | 309.4 | 309.3 |
| 40 | 660.40 | 144.00 | 0.00 | 51.558 | 0.087 | 0.073 | 285.0 | 652.5 | 305.7 | 305.6 |
| 41 | 660.40 | 152.00 | 0.00 | 51.284 | 0.019 | 0.027 | 285.0 | 652.6 | 301.2 | 301.2 |
| 42 | 660.40 | 160.00 | 0.00 | 51.300 | 0.012 | 0.016 | 285.0 | 652.0 | 297.2 | 297.2 |

File : TAB353T 2-MAR-89
2-MAR-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 655 K
DRPTAB, PLTTAB
I-B

C1 : X/D = 13
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.205 kPa

Mean gauged plenum pressure : 51.139 kPa
RMS gauged plenum pressure : 0.257 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | 0.00 | -120.00 | 51.072 | 0.012 | 0.011 | 285.7 | 660.0 | 300.6 | 300.6 |
| 3 | 660.40 | 0.00 | -116.00 | 51.372 | 0.013 | 0.011 | 285.5 | 659.1 | 298.2 | 298.2 |
| 4 | 660.40 | 0.00 | -112.00 | 51.466 | 0.013 | 0.011 | 285.5 | 662.1 | 299.5 | 299.5 |
| 5 | 660.40 | 0.00 | -108.00 | 51.267 | 0.017 | 0.018 | 285.4 | 662.8 | 302.4 | 302.4 |
| 6 | 660.40 | 0.00 | -104.00 | 51.182 | 0.028 | 0.012 | 285.3 | 662.3 | 304.4 | 304.4 |
| 7 | 660.40 | 0.00 | -100.00 | 50.779 | 0.064 | 0.024 | 285.3 | 662.4 | 308.3 | 308.2 |
| 8 | 660.40 | 0.00 | -96.00 | 51.409 | 0.074 | 0.038 | 285.3 | 661.5 | 311.6 | 311.5 |
| 9 | 660.40 | 0.00 | -92.00 | 51.384 | 0.134 | 0.092 | 285.3 | 660.1 | 313.7 | 313.6 |
| 10 | 660.40 | 0.00 | -88.00 | 51.245 | 0.195 | 0.120 | 285.3 | 658.7 | 316.8 | 316.6 |
| 11 | 660.40 | 0.00 | -84.00 | 50.966 | 0.278 | 0.159 | 285.4 | 658.8 | 320.6 | 320.3 |
| 12 | 660.40 | 0.00 | -80.00 | 50.845 | 0.381 | 0.213 | 285.3 | 660.7 | 323.8 | 323.4 |
| 13 | 660.40 | 0.00 | -76.00 | 51.302 | 0.421 | 0.285 | 285.3 | 662.3 | 327.2 | 326.8 |
| 14 | 660.40 | 0.00 | -72.00 | 51.179 | 0.665 | 0.379 | 285.3 | 661.5 | 329.7 | 329.1 |
| 15 | 660.40 | 0.00 | -68.00 | 51.257 | 0.821 | 0.475 | 285.3 | 661.8 | 333.0 | 332.2 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | 0.00 | -64.00 | 50.900 | 0.940 | 0.590 | 285.2 | 662.4 | 337.2 | 336.3 |
| 17 | 660.40 | 0.00 | -60.00 | 51.038 | 1.230 | 0.679 | 285.2 | 662.4 | 341.0 | 339.8 |
| 18 | 660.40 | 0.00 | -56.00 | 51.304 | 1.504 | 0.858 | 285.2 | 661.9 | 344.0 | 342.5 |
| 19 | 660.40 | 0.00 | -52.00 | 51.160 | 1.730 | 0.952 | 285.2 | 661.1 | 348.2 | 346.5 |
| 20 | 660.40 | 0.00 | -48.00 | 51.262 | 2.066 | 1.187 | 285.3 | 660.8 | 351.4 | 349.3 |
| 21 | 660.40 | 0.00 | -44.00 | 50.772 | 2.445 | 1.379 | 285.3 | 662.5 | 355.4 | 352.9 |
| 22 | 660.40 | 0.00 | -40.00 | 50.886 | 2.633 | 1.524 | 285.2 | 662.4 | 358.3 | 355.6 |
| 23 | 660.40 | 0.00 | -36.00 | 51.167 | 3.101 | 1.771 | 285.2 | 660.9 | 361.7 | 358.5 |
| 24 | 660.40 | 0.00 | -32.00 | 51.533 | 3.508 | 2.030 | 285.2 | 659.9 | 366.1 | 362.5 |
| 25 | 660.40 | 0.00 | -28.00 | 51.274 | 3.905 | 2.264 | 285.2 | 659.5 | 367.7 | 363.6 |
| 26 | 660.40 | 0.00 | -24.00 | 51.045 | 4.305 | 2.466 | 285.2 | 659.7 | 370.6 | 366.1 |
| 27 | 660.40 | 0.00 | -20.00 | 51.072 | 4.734 | 2.696 | 285.2 | 659.7 | 373.7 | 368.7 |
| 28 | 660.40 | 0.00 | -16.00 | 51.184 | 4.993 | 2.868 | 285.3 | 658.2 | 375.0 | 369.8 |
| 29 | 660.40 | 0.00 | -12.00 | 51.102 | 5.275 | 3.090 | 285.3 | 658.2 | 377.1 | 371.5 |
| 30 | 660.40 | 0.00 | -8.00 | 51.374 | 5.534 | 3.251 | 285.3 | 657.0 | 378.6 | 372.7 |
| 31 | 660.40 | 0.00 | -4.00 | 51.080 | 5.723 | 3.336 | 285.3 | 657.5 | 378.8 | 372.8 |
| 32 | 660.40 | 0.00 | 0.00 | 50.646 | 5.698 | 3.302 | 285.3 | 656.9 | 379.3 | 373.3 |
| 33 | 660.40 | 0.00 | 4.00 | 51.032 | 5.692 | 3.271 | 285.4 | 655.4 | 378.9 | 372.9 |
| 34 | 660.40 | 0.00 | 8.00 | 51.308 | 5.581 | 3.245 | 285.4 | 654.8 | 377.4 | 371.5 |
| 35 | 660.40 | 0.00 | 12.00 | 51.060 | 5.387 | 3.132 | 285.4 | 654.2 | 376.6 | 370.9 |
| 36 | 660.40 | 0.00 | 16.00 | 51.200 | 5.100 | 2.955 | 285.4 | 653.8 | 375.2 | 369.8 |
| 37 | 660.40 | 0.00 | 20.00 | 50.549 | 4.620 | 2.759 | 285.4 | 657.5 | 374.7 | 369.8 |

File : TAB341T 25-FEB-89
25-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 635 K
DRPTAB, PLTTAB
III-B

C1 : X/D = 5
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.815 kPa

Mean gauged plenum pressure : 51.233 kPa
RMS gauged plenum pressure : 0.422 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | 0.00 | 51.136 | 0.115 | 0.068 | 275.6 | 617.7 | 297.6 | 297.5 |
| 3 | 254.00 | -96.00 | 0.00 | 50.867 | 0.374 | 0.198 | 275.7 | 619.8 | 301.0 | 300.7 |
| 4 | 254.00 | -92.00 | 0.00 | 50.788 | 0.687 | 0.380 | 275.6 | 621.3 | 307.0 | 306.4 |
| 5 | 254.00 | -88.00 | 0.00 | 51.323 | 1.302 | 0.669 | 275.7 | 619.7 | 317.2 | 316.0 |
| 6 | 254.00 | -84.00 | 0.00 | 51.333 | 1.916 | 1.095 | 275.8 | 618.5 | 322.5 | 320.7 |
| 7 | 254.00 | -80.00 | 0.00 | 51.147 | 2.720 | 1.582 | 275.7 | 620.0 | 331.7 | 329.1 |
| 8 | 254.00 | -76.00 | 0.00 | 51.113 | 3.717 | 2.197 | 275.8 | 627.4 | 341.6 | 338.0 |
| 9 | 254.00 | -72.00 | 0.00 | 51.810 | 4.867 | 2.904 | 275.8 | 628.3 | 354.9 | 350.1 |
| 10 | 254.00 | -68.00 | 0.00 | 51.479 | 6.402 | 3.760 | 275.7 | 628.4 | 365.6 | 359.1 |
| 11 | 254.00 | -64.00 | 0.00 | 51.098 | 8.067 | 4.636 | 276.0 | 629.4 | 380.1 | 371.7 |
| 12 | 254.00 | -60.00 | 0.00 | 50.649 | 9.850 | 5.742 | 276.0 | 630.8 | 393.1 | 382.6 |
| 13 | 254.00 | -56.00 | 0.00 | 51.479 | 12.423 | 7.221 | 276.1 | 629.8 | 408.0 | 394.5 |
| 14 | 254.00 | -52.00 | 0.00 | 51.840 | 15.248 | 8.892 | 276.2 | 627.5 | 422.3 | 405.5 |
| 15 | 254.00 | -48.00 | 0.00 | 51.091 | 18.030 | 10.500 | 276.2 | 628.5 | 438.3 | 418.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -44.00 | 0.00 | 50.826 | 21.126 | 12.266 | 276.2 | 628.5 | 456.5 | 432.2 |
| 17 | 254.00 | -40.00 | 0.00 | 51.041 | 24.482 | 14.196 | 276.2 | 628.6 | 468.4 | 440.1 |
| 18 | 254.00 | -36.00 | 0.00 | 51.498 | 27.988 | 16.202 | 276.3 | 626.8 | 484.0 | 451.2 |
| 19 | 254.00 | -32.00 | 0.00 | 51.219 | 31.062 | 18.017 | 276.3 | 626.4 | 494.4 | 457.9 |
| 20 | 254.00 | -28.00 | 0.00 | 50.792 | 32.958 | 19.061 | 276.4 | 626.9 | 504.2 | 465.1 |
| 21 | 254.00 | -24.00 | 0.00 | 50.616 | 33.976 | 19.686 | 276.4 | 627.6 | 508.8 | 468.3 |
| 22 | 254.00 | -20.00 | 0.00 | 51.234 | 33.132 | 19.217 | 276.3 | 625.9 | 504.6 | 465.3 |
| 23 | 254.00 | -16.00 | 0.00 | 51.155 | 29.382 | 17.008 | 276.4 | 624.9 | 496.8 | 461.8 |
| 24 | 254.00 | -12.00 | 0.00 | 50.801 | 24.805 | 14.317 | 276.4 | 625.7 | 482.3 | 452.9 |
| 25 | 254.00 | -8.00 | 0.00 | 50.809 | 21.110 | 12.238 | 276.5 | 627.3 | 474.1 | 449.0 |
| 26 | 254.00 | -4.00 | 0.00 | 51.666 | 18.747 | 10.865 | 276.3 | 625.3 | 462.4 | 440.3 |
| 27 | 254.00 | 0.00 | 0.00 | 51.713 | 18.571 | 10.796 | 276.4 | 624.0 | 462.9 | 441.0 |
| 28 | 254.00 | 4.00 | 0.00 | 51.262 | 20.193 | 11.697 | 276.5 | 625.1 | 467.7 | 443.9 |
| 29 | 254.00 | 8.00 | 0.00 | 50.901 | 23.957 | 13.888 | 276.4 | 626.9 | 481.8 | 453.3 |
| 30 | 254.00 | 12.00 | 0.00 | 51.380 | 28.893 | 16.824 | 276.5 | 626.3 | 498.2 | 463.6 |
| 31 | 254.00 | 16.00 | 0.00 | 51.783 | 33.948 | 19.617 | 276.5 | 624.3 | 506.6 | 466.3 |
| 32 | 254.00 | 20.00 | 0.00 | 51.863 | 36.338 | 20.961 | 276.4 | 632.1 | 517.7 | 474.2 |
| 33 | 254.00 | 24.00 | 0.00 | 51.294 | 34.716 | 20.134 | 276.4 | 633.8 | 510.3 | 469.0 |
| 34 | 254.00 | 28.00 | 0.00 | 51.672 | 30.932 | 18.018 | 276.5 | 633.7 | 498.6 | 461.9 |
| 35 | 254.00 | 32.00 | 0.00 | 52.105 | 26.059 | 15.068 | 276.4 | 632.2 | 480.0 | 449.4 |
| 36 | 254.00 | 36.00 | 0.00 | 51.541 | 20.645 | 12.133 | 276.2 | 633.7 | 455.7 | 432.0 |
| 37 | 254.00 | 40.00 | 0.00 | 50.973 | 16.674 | 9.667 | 276.4 | 634.6 | 441.2 | 422.2 |
| 38 | 254.00 | 44.00 | 0.00 | 51.381 | 12.980 | 7.561 | 276.5 | 634.4 | 421.5 | 407.0 |
| 39 | 254.00 | 48.00 | 0.00 | 51.783 | 10.447 | 6.044 | 276.7 | 631.5 | 405.1 | 393.7 |
| 40 | 254.00 | 52.00 | 0.00 | 51.365 | 8.413 | 4.923 | 276.9 | 631.3 | 391.2 | 382.2 |
| 41 | 254.00 | 56.00 | 0.00 | 51.011 | 6.976 | 4.030 | 277.0 | 632.7 | 378.7 | 371.4 |
| 42 | 254.00 | 60.00 | 0.00 | 50.856 | 5.484 | 3.146 | 277.0 | 633.2 | 364.5 | 358.9 |
| 43 | 254.00 | 64.00 | 0.00 | 51.326 | 4.318 | 2.461 | 277.3 | 631.3 | 356.3 | 352.0 |
| 44 | 254.00 | 68.00 | 0.00 | 51.376 | 3.307 | 1.979 | 277.2 | 630.2 | 343.9 | 340.7 |
| 45 | 254.00 | 72.00 | 0.00 | 50.766 | 2.506 | 1.464 | 277.2 | 631.6 | 339.7 | 337.3 |
| 46 | 254.00 | 76.00 | 0.00 | 50.490 | 1.670 | 0.916 | 277.2 | 633.0 | 327.3 | 325.7 |
| 47 | 254.00 | 80.00 | 0.00 | 51.078 | 1.095 | 0.620 | 277.1 | 631.5 | 320.4 | 319.4 |
| 48 | 254.00 | 84.00 | 0.00 | 51.111 | 0.692 | 0.346 | 277.1 | 630.0 | 313.3 | 312.7 |
| 49 | 254.00 | 88.00 | 0.00 | 50.613 | 0.347 | 0.226 | 277.4 | 631.5 | 307.0 | 306.7 |
| 50 | 254.00 | 92.00 | 0.00 | 50.648 | 0.130 | 0.083 | 277.4 | 632.1 | 301.8 | 301.7 |
| 51 | 254.00 | 96.00 | 0.00 | 51.640 | 0.013 | 0.019 | 277.4 | 628.3 | 291.8 | 291.8 |
| 52 | 254.00 | 100.00 | 0.00 | 52.001 | 0.012 | 0.011 | 277.5 | 625.8 | 292.2 | 292.2 |

File : TAB342T 25-FEB-89
25-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 625 K
DRPTAB, PLTTAB
III-B

C1 : X/D = 5
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.849 kPa

Mean gauged plenum pressure : 51.202 kPa
RMS gauged plenum pressure : 0.444 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | 0.00 | -40.00 | 51.022 | 2.323 | 1.424 | 277.7 | 626.1 | 349.4 | 347.1 |
| 3 | 254.00 | 0.00 | -39.00 | 52.027 | 2.603 | 1.553 | 277.8 | 626.4 | 349.9 | 347.3 |
| 4 | 254.00 | 0.00 | -38.00 | 52.120 | 3.034 | 1.815 | 277.9 | 624.2 | 354.5 | 351.5 |
| 5 | 254.00 | 0.00 | -37.00 | 51.053 | 3.390 | 1.989 | 277.9 | 626.9 | 360.2 | 356.8 |
| 6 | 254.00 | 0.00 | -36.00 | 50.784 | 3.872 | 2.303 | 278.0 | 628.9 | 364.9 | 360.9 |
| 7 | 254.00 | 0.00 | -35.00 | 51.022 | 4.381 | 2.544 | 278.0 | 628.6 | 368.3 | 363.8 |
| 8 | 254.00 | 0.00 | -34.00 | 51.509 | 4.967 | 2.992 | 277.9 | 626.8 | 374.7 | 369.5 |
| 9 | 254.00 | 0.00 | -33.00 | 51.234 | 5.632 | 3.260 | 277.7 | 626.9 | 377.2 | 371.3 |
| 10 | 254.00 | 0.00 | -32.00 | 50.794 | 6.091 | 3.553 | 277.8 | 628.4 | 381.0 | 374.6 |
| 11 | 254.00 | 0.00 | -31.00 | 50.758 | 6.706 | 3.900 | 277.8 | 628.5 | 384.6 | 377.5 |
| 12 | 254.00 | 0.00 | -30.00 | 51.294 | 7.515 | 4.408 | 277.9 | 626.6 | 390.1 | 382.1 |
| 13 | 254.00 | 0.00 | -29.00 | 51.048 | 8.133 | 4.721 | 278.1 | 626.0 | 393.1 | 384.4 |
| 14 | 254.00 | 0.00 | -28.00 | 50.500 | 8.670 | 5.156 | 278.1 | 627.4 | 399.1 | 389.7 |
| 15 | 254.00 | 0.00 | -27.00 | 50.449 | 9.546 | 5.574 | 278.3 | 628.9 | 402.8 | 392.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | 0.00 | -26.00 | 51.428 | 10.687 | 6.179 | 278.1 | 627.6 | 407.4 | 395.7 |
| 17 | 254.00 | 0.00 | -25.00 | 51.599 | 11.340 | 6.543 | 278.2 | 626.6 | 413.2 | 400.7 |
| 18 | 254.00 | 0.00 | -24.00 | 51.020 | 12.236 | 7.062 | 278.2 | 628.1 | 418.2 | 404.6 |
| 19 | 254.00 | 0.00 | -23.00 | 50.959 | 12.885 | 7.509 | 278.2 | 629.6 | 422.9 | 408.5 |
| 20 | 254.00 | 0.00 | -22.00 | 51.378 | 13.807 | 8.068 | 278.0 | 627.6 | 425.8 | 410.3 |
| 21 | 254.00 | 0.00 | -21.00 | 51.680 | 14.805 | 8.574 | 278.0 | 626.4 | 428.6 | 412.0 |
| 22 | 254.00 | 0.00 | -20.00 | 51.088 | 15.494 | 9.014 | 278.2 | 627.5 | 434.5 | 417.0 |
| 23 | 254.00 | 0.00 | -19.00 | 50.712 | 16.239 | 9.438 | 278.2 | 627.7 | 440.4 | 421.9 |
| 24 | 254.00 | 0.00 | -18.00 | 51.563 | 17.185 | 9.958 | 278.6 | 625.3 | 441.6 | 422.1 |
| 25 | 254.00 | 0.00 | -17.00 | 51.007 | 17.750 | 10.332 | 278.4 | 625.0 | 445.3 | 425.0 |
| 26 | 254.00 | 0.00 | -16.00 | 50.648 | 18.152 | 10.571 | 278.4 | 626.5 | 449.4 | 428.5 |
| 27 | 254.00 | 0.00 | -15.00 | 50.677 | 18.847 | 10.990 | 278.5 | 626.1 | 453.4 | 431.6 |
| 28 | 254.00 | 0.00 | -14.00 | 51.244 | 19.629 | 11.431 | 278.5 | 625.3 | 453.6 | 431.0 |
| 29 | 254.00 | 0.00 | -13.00 | 51.796 | 20.284 | 11.755 | 278.4 | 623.8 | 456.9 | 433.5 |
| 30 | 254.00 | 0.00 | -12.00 | 51.307 | 20.361 | 11.912 | 278.7 | 624.0 | 460.8 | 437.1 |
| 31 | 254.00 | 0.00 | -11.00 | 51.299 | 20.620 | 11.962 | 278.6 | 631.0 | 468.9 | 444.6 |
| 32 | 254.00 | 0.00 | -10.00 | 51.644 | 20.969 | 12.144 | 278.4 | 632.4 | 469.5 | 444.8 |
| 33 | 254.00 | 0.00 | -9.00 | 52.001 | 21.163 | 12.354 | 278.6 | 630.4 | 467.8 | 442.9 |
| 34 | 254.00 | 0.00 | -8.00 | 51.600 | 21.217 | 12.230 | 278.9 | 630.0 | 469.7 | 444.7 |
| 35 | 254.00 | 0.00 | -7.00 | 51.135 | 20.865 | 12.160 | 278.7 | 630.9 | 473.5 | 448.7 |
| 36 | 254.00 | 0.00 | -6.00 | 51.356 | 20.701 | 12.034 | 278.6 | 631.2 | 472.2 | 447.6 |
| 37 | 254.00 | 0.00 | -5.00 | 51.769 | 20.740 | 12.028 | 278.5 | 629.0 | 471.8 | 447.2 |
| 38 | 254.00 | 0.00 | -4.00 | 51.718 | 20.256 | 11.696 | 278.7 | 627.8 | 469.7 | 445.7 |
| 39 | 254.00 | 0.00 | -3.00 | 51.071 | 19.785 | 11.527 | 278.7 | 629.3 | 471.5 | 447.9 |
| 40 | 254.00 | 0.00 | -2.00 | 51.107 | 19.384 | 11.205 | 278.3 | 630.9 | 470.8 | 447.7 |
| 41 | 254.00 | 0.00 | -1.00 | 51.516 | 18.965 | 11.040 | 278.6 | 629.1 | 465.8 | 443.4 |
| 42 | 254.00 | 0.00 | 0.00 | 51.453 | 18.453 | 10.765 | 278.7 | 627.7 | 465.4 | 443.5 |
| 43 | 254.00 | 0.00 | 1.00 | 51.004 | 17.779 | 10.311 | 278.8 | 629.4 | 465.2 | 444.0 |
| 44 | 254.00 | 0.00 | 2.00 | 50.828 | 17.353 | 10.041 | 278.7 | 630.8 | 461.0 | 440.5 |
| 45 | 254.00 | 0.00 | 3.00 | 51.500 | 16.665 | 9.733 | 278.8 | 628.9 | 454.6 | 435.1 |
| 46 | 254.00 | 0.00 | 4.00 | 51.443 | 16.041 | 9.248 | 278.7 | 627.0 | 454.2 | 435.4 |
| 47 | 254.00 | 0.00 | 5.00 | 50.806 | 15.368 | 9.060 | 278.9 | 626.8 | 452.5 | 434.4 |
| 48 | 254.00 | 0.00 | 6.00 | 50.650 | 14.769 | 8.553 | 279.1 | 628.3 | 449.4 | 432.1 |
| 49 | 254.00 | 0.00 | 7.00 | 51.204 | 14.187 | 8.278 | 279.3 | 627.1 | 445.7 | 429.2 |
| 50 | 254.00 | 0.00 | 8.00 | 51.329 | 13.605 | 7.898 | 279.0 | 625.3 | 441.1 | 425.3 |
| 51 | 254.00 | 0.00 | 9.00 | 50.850 | 12.608 | 7.299 | 278.8 | 625.9 | 434.6 | 420.1 |
| 52 | 254.00 | 0.00 | 10.00 | 50.417 | 12.132 | 7.110 | 278.8 | 627.4 | 435.1 | 421.1 |

File : TAB345T 25-FEB-89
25-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 650 K
DRPTAB, PLTDMN, -14 DEG
III-B

C1 : X/D = 5
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.476 kPa

Mean gauged plenum pressure : 51.410 kPa
RMS gauged plenum pressure : 0.459 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 254.00 | -100.00 | 0.00 | 52.045 | 0.013 | 0.020 | 284.7 | 644.0 | 299.9 | 299.9 |
| 3 | 254.00 | -96.00 | 0.00 | 51.422 | 0.015 | 0.026 | 284.9 | 653.4 | 298.2 | 298.2 |
| 4 | 254.00 | -92.00 | 0.00 | 50.962 | 0.233 | 0.138 | 284.9 | 657.9 | 310.8 | 310.6 |
| 5 | 254.00 | -88.00 | 0.00 | 51.510 | 0.492 | 0.282 | 284.7 | 657.9 | 319.4 | 318.9 |
| 6 | 254.00 | -84.00 | 0.00 | 51.986 | 1.147 | 0.803 | 284.7 | 655.7 | 328.5 | 327.4 |
| 7 | 254.00 | -80.00 | 0.00 | 51.146 | 1.743 | 1.137 | 284.6 | 656.1 | 339.0 | 337.3 |
| 8 | 254.00 | -76.00 | 0.00 | 50.694 | 1.947 | 1.118 | 284.7 | 655.3 | 338.8 | 336.9 |
| 9 | 254.00 | -72.00 | 0.00 | 51.528 | 2.233 | 1.308 | 284.9 | 653.7 | 348.9 | 346.7 |
| 10 | 254.00 | -68.00 | 0.00 | 51.839 | 3.454 | 1.876 | 285.0 | 651.0 | 358.0 | 354.5 |
| 11 | 254.00 | -64.00 | 0.00 | 51.682 | 4.189 | 2.377 | 285.0 | 650.9 | 370.9 | 366.5 |
| 12 | 254.00 | -60.00 | 0.00 | 51.173 | 5.854 | 3.579 | 285.1 | 652.3 | 386.5 | 380.2 |
| 13 | 254.00 | -56.00 | 0.00 | 50.737 | 7.351 | 4.287 | 284.9 | 654.2 | 399.1 | 391.0 |
| 14 | 254.00 | -52.00 | 0.00 | 51.600 | 9.489 | 5.533 | 284.7 | 652.1 | 414.8 | 404.1 |
| 15 | 254.00 | -48.00 | 0.00 | 52.387 | 12.073 | 6.961 | 284.8 | 650.5 | 430.1 | 416.3 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 254.00 | -44.00 | 0.00 | 51.270 | 14.778 | 8.560 | 284.9 | 652.6 | 449.7 | 432.3 |
| 17 | 254.00 | -40.00 | 0.00 | 50.832 | 18.094 | 10.419 | 284.9 | 655.8 | 465.6 | 444.0 |
| 18 | 254.00 | -36.00 | 0.00 | 51.132 | 22.235 | 12.784 | 284.8 | 655.9 | 484.0 | 457.1 |
| 19 | 254.00 | -32.00 | 0.00 | 51.649 | 26.126 | 15.226 | 284.7 | 654.2 | 496.8 | 465.1 |
| 20 | 254.00 | -28.00 | 0.00 | 51.505 | 29.608 | 17.191 | 284.5 | 652.5 | 512.0 | 475.7 |
| 21 | 254.00 | -24.00 | 0.00 | 50.810 | 30.810 | 17.810 | 284.6 | 654.2 | 518.3 | 480.3 |
| 22 | 254.00 | -20.00 | 0.00 | 51.375 | 30.361 | 17.536 | 284.5 | 653.9 | 515.8 | 478.4 |
| 23 | 254.00 | -16.00 | 0.00 | 51.869 | 27.574 | 16.092 | 284.8 | 651.2 | 506.2 | 472.4 |
| 24 | 254.00 | -12.00 | 0.00 | 51.288 | 23.470 | 13.569 | 285.0 | 650.0 | 494.0 | 465.3 |
| 25 | 254.00 | -8.00 | 0.00 | 50.964 | 19.574 | 11.415 | 285.1 | 650.2 | 482.4 | 458.5 |
| 26 | 254.00 | -4.00 | 0.00 | 51.053 | 17.992 | 10.489 | 285.2 | 649.0 | 477.6 | 455.6 |
| 27 | 254.00 | 0.00 | 0.00 | 51.533 | 18.442 | 10.642 | 284.9 | 647.1 | 477.8 | 455.3 |
| 28 | 254.00 | 4.00 | 0.00 | 51.817 | 20.759 | 12.108 | 284.8 | 645.6 | 485.1 | 459.7 |
| 29 | 254.00 | 8.00 | 0.00 | 51.018 | 24.401 | 14.112 | 284.7 | 647.6 | 499.9 | 469.8 |
| 30 | 254.00 | 12.00 | 0.00 | 50.841 | 29.222 | 16.939 | 284.8 | 648.0 | 513.9 | 477.8 |
| 31 | 254.00 | 16.00 | 0.00 | 51.866 | 33.593 | 19.581 | 284.8 | 647.2 | 523.1 | 481.9 |
| 32 | 254.00 | 20.00 | 0.00 | 51.995 | 34.966 | 20.230 | 284.5 | 645.5 | 524.8 | 482.0 |

File : TAB336T 24-FEB-89
24-FEB-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 632 K
DRPTAB, PLTTAB
III-B

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.849 kPa

Mean gauged plenum pressure : 51.369 kPa
RMS gauged plenum pressure : 0.428 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.129 | 0.295 | 0.160 | 275.5 | 630.6 | 301.7 | 301.4 |
| 3 | 457.20 | -105.00 | 0.00 | 51.381 | 0.558 | 0.352 | 275.4 | 632.3 | 308.8 | 308.3 |
| 4 | 457.20 | -100.00 | 0.00 | 51.753 | 0.829 | 0.449 | 275.1 | 631.5 | 313.4 | 312.7 |
| 5 | 457.20 | -95.00 | 0.00 | 51.989 | 1.272 | 0.716 | 274.9 | 629.9 | 319.5 | 318.3 |
| 6 | 457.20 | -90.00 | 0.00 | 51.638 | 1.578 | 0.916 | 275.3 | 629.5 | 324.5 | 323.0 |
| 7 | 457.20 | -85.00 | 0.00 | 50.926 | 2.115 | 1.203 | 275.4 | 630.9 | 330.1 | 328.1 |
| 8 | 457.20 | -80.00 | 0.00 | 50.673 | 2.874 | 1.678 | 275.2 | 632.5 | 337.2 | 334.5 |
| 9 | 457.20 | -75.00 | 0.00 | 51.200 | 3.830 | 2.222 | 275.4 | 630.0 | 345.2 | 341.5 |
| 10 | 457.20 | -70.00 | 0.00 | 51.480 | 4.699 | 2.766 | 275.3 | 627.7 | 352.3 | 347.7 |
| 11 | 457.20 | -65.00 | 0.00 | 51.427 | 5.453 | 3.165 | 275.1 | 625.9 | 359.0 | 353.6 |
| 12 | 457.20 | -60.00 | 0.00 | 50.780 | 6.484 | 3.831 | 275.2 | 627.2 | 365.8 | 359.2 |
| 13 | 457.20 | -55.00 | 0.00 | 51.065 | 7.623 | 4.516 | 275.3 | 626.3 | 374.5 | 366.7 |
| 14 | 457.20 | -50.00 | 0.00 | 51.153 | 8.950 | 5.224 | 275.3 | 624.4 | 381.1 | 371.8 |
| 15 | 457.20 | -45.00 | 0.00 | 51.415 | 9.939 | 5.815 | 275.1 | 622.6 | 386.5 | 376.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 52.081 | 11.438 | 6.631 | 275.0 | 624.0 | 396.7 | 384.6 |
| 17 | 457.20 | -35.00 | 0.00 | 50.698 | 11.788 | 6.846 | 275.0 | 639.3 | 403.7 | 391.0 |
| 18 | 457.20 | -30.00 | 0.00 | 50.189 | 12.417 | 7.168 | 275.2 | 638.3 | 406.7 | 393.3 |
| 19 | 457.20 | -25.00 | 0.00 | 51.653 | 13.151 | 7.726 | 275.2 | 621.7 | 405.4 | 391.3 |
| 20 | 457.20 | -20.00 | 0.00 | 52.011 | 13.166 | 7.665 | 275.3 | 626.8 | 410.2 | 395.9 |
| 21 | 457.20 | -15.00 | 0.00 | 51.655 | 12.935 | 7.390 | 275.5 | 630.4 | 410.6 | 396.5 |
| 22 | 457.20 | -10.00 | 0.00 | 51.068 | 12.474 | 7.171 | 275.4 | 632.6 | 410.4 | 396.8 |
| 23 | 457.20 | -5.00 | 0.00 | 51.137 | 12.103 | 6.978 | 275.5 | 633.8 | 409.2 | 396.0 |
| 24 | 457.20 | 0.00 | 0.00 | 51.570 | 11.908 | 6.935 | 275.5 | 631.6 | 407.9 | 395.0 |
| 25 | 457.20 | 5.00 | 0.00 | 51.828 | 12.132 | 7.032 | 275.4 | 629.4 | 409.6 | 396.4 |
| 26 | 457.20 | 10.00 | 0.00 | 51.346 | 12.243 | 7.104 | 275.3 | 629.1 | 408.8 | 395.5 |
| 27 | 457.20 | 15.00 | 0.00 | 50.724 | 12.557 | 7.275 | 275.7 | 632.1 | 410.5 | 396.8 |
| 28 | 457.20 | 20.00 | 0.00 | 51.271 | 12.947 | 7.579 | 275.8 | 630.9 | 410.4 | 396.3 |
| 29 | 457.20 | 25.00 | 0.00 | 51.506 | 13.255 | 7.629 | 275.9 | 628.5 | 408.9 | 394.6 |
| 30 | 457.20 | 30.00 | 0.00 | 51.810 | 13.058 | 7.588 | 275.9 | 626.3 | 405.9 | 391.9 |
| 31 | 457.20 | 35.00 | 0.00 | 50.934 | 11.999 | 6.969 | 275.9 | 626.9 | 402.8 | 389.9 |
| 32 | 457.20 | 40.00 | 0.00 | 51.067 | 11.071 | 6.383 | 275.4 | 627.7 | 398.5 | 386.7 |
| 33 | 457.20 | 45.00 | 0.00 | 51.748 | 9.999 | 5.785 | 275.4 | 626.4 | 391.2 | 380.6 |
| 34 | 457.20 | 50.00 | 0.00 | 51.597 | 8.626 | 5.003 | 275.6 | 626.8 | 382.2 | 373.2 |
| 35 | 457.20 | 55.00 | 0.00 | 51.557 | 7.195 | 4.042 | 275.6 | 626.4 | 374.1 | 366.7 |
| 36 | 457.20 | 60.00 | 0.00 | 50.842 | 5.613 | 3.345 | 275.6 | 629.2 | 368.9 | 363.2 |
| 37 | 457.20 | 65.00 | 0.00 | 51.108 | 4.749 | 2.707 | 275.6 | 629.1 | 358.0 | 353.2 |
| 38 | 457.20 | 70.00 | 0.00 | 51.507 | 4.008 | 2.243 | 275.7 | 627.0 | 351.0 | 347.0 |
| 39 | 457.20 | 75.00 | 0.00 | 51.820 | 3.234 | 1.848 | 275.7 | 625.3 | 341.7 | 338.6 |
| 40 | 457.20 | 80.00 | 0.00 | 51.444 | 2.199 | 1.314 | 275.4 | 625.3 | 334.7 | 332.6 |
| 41 | 457.20 | 85.00 | 0.00 | 51.123 | 1.715 | 1.016 | 275.5 | 633.6 | 328.5 | 326.9 |
| 42 | 457.20 | 90.00 | 0.00 | 51.778 | 1.222 | 0.726 | 275.3 | 632.5 | 322.6 | 321.5 |
| 43 | 457.20 | 95.00 | 0.00 | 51.923 | 0.937 | 0.567 | 275.6 | 630.2 | 317.2 | 316.3 |
| 44 | 457.20 | 100.00 | 0.00 | 51.714 | 0.587 | 0.291 | 275.3 | 629.1 | 310.8 | 310.3 |
| 45 | 457.20 | 105.00 | 0.00 | 51.127 | 0.480 | 0.193 | 275.5 | 630.9 | 308.3 | 307.9 |
| 46 | 457.20 | 110.00 | 0.00 | 51.617 | 0.172 | 0.121 | 275.8 | 629.2 | 301.6 | 301.5 |

File : TAB335T 24-FEB-89
24-FEB-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 618 K
DRPTAB, PLTTAB
III-B

C1 : X/D = 9
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.849 kPa

Mean gauged plenum pressure : 49.501 kPa
RMS gauged plenum pressure : 7.993 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 51.107 | 1.523 | 0.864 | 270.7 | 617.3 | 327.4 | 326.0 |
| 3 | 457.20 | 0.00 | -58.00 | 51.500 | 1.719 | 1.026 | 270.8 | 616.8 | 330.0 | 328.4 |
| 4 | 457.20 | 0.00 | -56.00 | 51.754 | 2.008 | 1.165 | 270.5 | 614.5 | 334.0 | 332.1 |
| 5 | 457.20 | 0.00 | -54.00 | 51.682 | 2.329 | 1.321 | 270.9 | 613.8 | 336.9 | 334.7 |
| 6 | 457.20 | 0.00 | -52.00 | 50.970 | 2.575 | 1.490 | 271.1 | 617.5 | 340.0 | 337.5 |
| 7 | 457.20 | 0.00 | -50.00 | 51.152 | 3.013 | 1.665 | 270.8 | 617.2 | 343.2 | 340.3 |
| 8 | 457.20 | 0.00 | -48.00 | 51.405 | 3.255 | 1.895 | 270.9 | 615.2 | 346.3 | 343.1 |
| 12 | 457.20 | 0.00 | -40.00 | 51.753 | 5.019 | 2.892 | 271.0 | 610.3 | 359.8 | 354.8 |
| 13 | 457.20 | 0.00 | -38.00 | 51.505 | 5.407 | 3.176 | 271.3 | 618.4 | 363.8 | 358.3 |
| 14 | 457.20 | 0.00 | -36.00 | 51.861 | 6.012 | 3.466 | 271.2 | 617.8 | 366.8 | 360.7 |
| 15 | 457.20 | 0.00 | -34.00 | 51.182 | 6.523 | 3.740 | 271.1 | 619.4 | 370.3 | 363.6 |
| 16 | 457.20 | 0.00 | -32.00 | 50.989 | 7.070 | 4.073 | 270.9 | 621.5 | 374.3 | 367.0 |
| 17 | 457.20 | 0.00 | -30.00 | 51.258 | 7.856 | 4.573 | 271.0 | 615.8 | 377.4 | 369.3 |
| 18 | 457.20 | 0.00 | -28.00 | 51.395 | 8.242 | 4.815 | 271.2 | 613.6 | 378.4 | 369.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 457.20 | 0.00 | -26.00 | 52.001 | 8.908 | 5.238 | 271.3 | 616.5 | 382.3 | 373.0 |
| 20 | 457.20 | 0.00 | -24.00 | 51.433 | 9.423 | 5.464 | 271.4 | 617.2 | 386.8 | 376.9 |
| 21 | 457.20 | 0.00 | -22.00 | 50.827 | 9.770 | 5.640 | 271.6 | 620.5 | 390.0 | 379.7 |
| 22 | 457.20 | 0.00 | -20.00 | 51.155 | 10.453 | 6.107 | 271.6 | 619.8 | 391.8 | 380.8 |
| 23 | 457.20 | 0.00 | -18.00 | 51.211 | 10.968 | 6.393 | 271.8 | 617.7 | 393.4 | 381.8 |
| 24 | 457.20 | 0.00 | -16.00 | 51.492 | 11.446 | 6.641 | 271.8 | 615.6 | 395.1 | 383.0 |
| 25 | 457.20 | 0.00 | -14.00 | 51.417 | 11.748 | 6.775 | 272.0 | 613.9 | 397.9 | 385.4 |
| 26 | 457.20 | 0.00 | -12.00 | 50.588 | 11.934 | 6.878 | 272.0 | 616.7 | 398.2 | 385.5 |
| 27 | 457.20 | 0.00 | -10.00 | 51.174 | 12.354 | 7.118 | 272.1 | 614.8 | 400.0 | 386.9 |
| 28 | 457.20 | 0.00 | -8.00 | 51.526 | 12.616 | 7.256 | 271.8 | 613.9 | 401.5 | 388.0 |
| 29 | 457.20 | 0.00 | -6.00 | 51.498 | 12.494 | 7.223 | 271.8 | 616.1 | 402.3 | 388.9 |
| 30 | 457.20 | 0.00 | -4.00 | 51.525 | 12.581 | 7.296 | 272.1 | 615.2 | 403.1 | 389.6 |
| 31 | 457.20 | 0.00 | -2.00 | 50.959 | 12.348 | 7.167 | 272.1 | 615.8 | 402.4 | 389.2 |
| 32 | 457.20 | 0.00 | 0.00 | 51.093 | 12.149 | 7.067 | 272.0 | 615.0 | 403.5 | 390.4 |
| 33 | 457.20 | 0.00 | 2.00 | 51.555 | 11.935 | 6.854 | 272.1 | 613.3 | 402.3 | 389.5 |
| 34 | 457.20 | 0.00 | 4.00 | 51.755 | 11.453 | 6.585 | 272.0 | 615.9 | 399.6 | 387.4 |
| 35 | 457.20 | 0.00 | 6.00 | 51.887 | 10.854 | 6.404 | 271.8 | 615.1 | 397.1 | 385.5 |
| 36 | 457.20 | 0.00 | 8.00 | 50.965 | 10.439 | 6.017 | 271.9 | 617.1 | 397.4 | 386.2 |
| 37 | 457.20 | 0.00 | 10.00 | 50.850 | 9.846 | 5.649 | 272.0 | 618.2 | 394.2 | 383.7 |

File : TAB348T 28-FEB-89
28-FEB-89

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 665 K
DRPTAB, PLTTAB, -14 DEG
III-B

C1 : X/D = 9
C2 : DIAGONAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.596 kPa

Mean gauged plenum pressure : 50.951 kPa
RMS gauged plenum pressure : 0.334 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | -110.00 | 0.00 | 51.456 | 0.170 | 0.124 | 288.7 | 663.1 | 318.8 | 318.6 |
| 3 | 457.20 | -105.00 | 0.00 | 51.244 | 0.285 | 0.176 | 288.7 | 662.9 | 319.3 | 319.0 |
| 4 | 457.20 | -100.00 | 0.00 | 50.756 | 0.853 | 0.481 | 288.9 | 664.2 | 327.2 | 326.4 |
| 5 | 457.20 | -95.00 | 0.00 | 50.629 | 0.947 | 0.484 | 288.7 | 664.9 | 331.4 | 330.5 |
| 6 | 457.20 | -90.00 | 0.00 | 51.073 | 1.456 | 0.874 | 288.8 | 663.2 | 338.8 | 337.4 |
| 7 | 457.20 | -85.00 | 0.00 | 51.243 | 1.672 | 0.971 | 288.9 | 662.7 | 345.1 | 343.4 |
| 8 | 457.20 | -80.00 | 0.00 | 51.046 | 2.395 | 1.395 | 289.1 | 662.2 | 350.6 | 348.2 |
| 9 | 457.20 | -75.00 | 0.00 | 50.280 | 3.552 | 2.079 | 289.0 | 663.7 | 363.6 | 359.9 |
| 10 | 457.20 | -70.00 | 0.00 | 51.019 | 4.122 | 2.349 | 288.8 | 664.5 | 369.2 | 364.9 |
| 11 | 457.20 | -65.00 | 0.00 | 51.350 | 5.003 | 2.824 | 289.1 | 663.2 | 376.7 | 371.4 |
| 12 | 457.20 | -60.00 | 0.00 | 51.132 | 5.844 | 3.380 | 288.9 | 663.5 | 383.0 | 376.7 |
| 13 | 457.20 | -55.00 | 0.00 | 50.579 | 6.953 | 3.941 | 289.0 | 665.7 | 392.1 | 384.5 |
| 14 | 457.20 | -50.00 | 0.00 | 51.017 | 7.855 | 4.563 | 289.0 | 665.3 | 400.0 | 391.3 |
| 15 | 457.20 | -45.00 | 0.00 | 51.252 | 9.347 | 5.514 | 289.0 | 664.2 | 410.6 | 400.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | -40.00 | 0.00 | 51.197 | 10.520 | 6.128 | 288.8 | 665.2 | 415.5 | 403.6 |
| 17 | 457.20 | -35.00 | 0.00 | 50.497 | 11.366 | 6.546 | 288.7 | 665.9 | 423.7 | 410.7 |
| 18 | 457.20 | -30.00 | 0.00 | 50.777 | 11.860 | 6.889 | 288.7 | 665.7 | 426.6 | 413.0 |
| 19 | 457.20 | -25.00 | 0.00 | 51.270 | 12.328 | 7.111 | 288.7 | 663.8 | 427.9 | 413.8 |
| 20 | 457.20 | -20.00 | 0.00 | 51.039 | 12.333 | 7.098 | 288.8 | 665.0 | 429.2 | 415.0 |
| 21 | 457.20 | -15.00 | 0.00 | 50.644 | 12.127 | 7.001 | 288.7 | 666.6 | 430.8 | 416.8 |
| 22 | 457.20 | -10.00 | 0.00 | 50.819 | 11.973 | 6.897 | 288.6 | 666.8 | 431.4 | 417.5 |
| 23 | 457.20 | -5.00 | 0.00 | 51.178 | 12.034 | 6.858 | 288.9 | 665.3 | 432.0 | 418.0 |
| 24 | 457.20 | 0.00 | 0.00 | 51.036 | 11.944 | 6.902 | 288.7 | 664.0 | 428.9 | 415.1 |
| 25 | 457.20 | 5.00 | 0.00 | 50.526 | 11.861 | 6.985 | 288.9 | 664.0 | 430.9 | 417.2 |
| 26 | 457.20 | 10.00 | 0.00 | 50.860 | 12.510 | 7.242 | 288.8 | 663.9 | 433.7 | 419.2 |
| 27 | 457.20 | 15.00 | 0.00 | 51.308 | 12.980 | 7.547 | 288.8 | 664.1 | 434.2 | 419.2 |
| 28 | 457.20 | 20.00 | 0.00 | 50.960 | 13.181 | 7.628 | 288.8 | 663.4 | 432.1 | 416.9 |

File : TAB359T 6-MAR-89
6-MAR-89

Reduced experimental data file

*HORIZONTAL PROFILE*

Unexcited, heated jet, Mj = 0.8, Tt = 653 K
DRPTAB, PLTTANB
I-C

C1 : X/D = 9
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.189 kPa

Mean gauged plenum pressure : 50.697 kPa
RMS gauged plenum pressure : 0.279 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 457.20 | 0.00 | 0.00 | 50.652 | 4.917 | 2.865 | 284.0 | 653.6 | 382.2 | 376.9 |
| 2 | 457.20 | -110.00 | 0.00 | 50.464 | 0.407 | 0.272 | 283.8 | 654.0 | 318.9 | 318.5 |
| 3 | 457.20 | -105.00 | 0.00 | 50.529 | 0.741 | 0.467 | 283.8 | 653.1 | 323.2 | 322.5 |
| 4 | 457.20 | -100.00 | 0.00 | 51.169 | 1.185 | 0.729 | 283.9 | 650.4 | 330.6 | 329.5 |
| 5 | 457.20 | -95.00 | 0.00 | 50.582 | 1.761 | 1.024 | 283.9 | 650.8 | 338.4 | 336.7 |
| 6 | 457.20 | -90.00 | 0.00 | 50.560 | 2.217 | 1.288 | 283.7 | 650.3 | 345.6 | 343.4 |
| 7 | 457.20 | -85.00 | 0.00 | 50.520 | 3.018 | 1.740 | 283.7 | 650.3 | 352.6 | 349.5 |
| 8 | 457.20 | -80.00 | 0.00 | 50.878 | 3.696 | 2.126 | 283.8 | 652.9 | 360.9 | 357.1 |
| 9 | 457.20 | -75.00 | 0.00 | 50.856 | 4.573 | 2.564 | 284.2 | 655.5 | 368.5 | 363.7 |
| 10 | 457.20 | -70.00 | 0.00 | 50.692 | 5.720 | 3.370 | 283.9 | 656.0 | 378.1 | 372.0 |
| 11 | 457.20 | -65.00 | 0.00 | 50.739 | 6.190 | 3.735 | 283.7 | 656.7 | 380.3 | 373.7 |
| 12 | 457.20 | -60.00 | 0.00 | 50.828 | 7.957 | 4.617 | 283.8 | 657.7 | 394.1 | 385.4 |
| 13 | 457.20 | -55.00 | 0.00 | 50.753 | 9.103 | 5.295 | 283.7 | 656.7 | 400.3 | 390.3 |
| 14 | 457.20 | -50.00 | 0.00 | 51.013 | 10.338 | 6.025 | 283.5 | 649.9 | 405.6 | 394.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 457.20 | -45.00 | 0.00 | 50.700 | 10.787 | 6.357 | 283.4 | 650.8 | 409.0 | 397.0 |
| 16 | 457.20 | -40.00 | 0.00 | 50.652 | 10.691 | 6.232 | 283.5 | 654.0 | 408.4 | 396.5 |
| 17 | 457.20 | -35.00 | 0.00 | 50.677 | 10.320 | 6.025 | 283.6 | 653.6 | 406.7 | 395.2 |
| 18 | 457.20 | -30.00 | 0.00 | 50.829 | 9.793 | 5.682 | 283.7 | 651.9 | 406.4 | 395.5 |
| 19 | 457.20 | -25.00 | 0.00 | 50.477 | 8.706 | 5.097 | 283.7 | 652.8 | 401.9 | 392.2 |
| 20 | 457.20 | -20.00 | 0.00 | 50.666 | 7.483 | 4.376 | 283.5 | 653.0 | 398.6 | 390.3 |
| 21 | 457.20 | -15.00 | 0.00 | 50.470 | 6.512 | 3.826 | 283.5 | 653.2 | 393.9 | 386.7 |
| 22 | 457.20 | -10.00 | 0.00 | 50.371 | 5.767 | 3.394 | 283.5 | 653.6 | 388.9 | 382.6 |
| 23 | 457.20 | -5.00 | 0.00 | 51.119 | 5.222 | 3.058 | 283.5 | 651.2 | 385.5 | 379.8 |
| 24 | 457.20 | 0.00 | 0.00 | 50.708 | 4.986 | 2.868 | 283.4 | 649.4 | 382.5 | 377.1 |
| 25 | 457.20 | 5.00 | 0.00 | 50.379 | 4.914 | 2.907 | 283.4 | 651.0 | 382.6 | 377.3 |
| 26 | 457.20 | 10.00 | 0.00 | 50.802 | 5.212 | 2.996 | 283.4 | 648.4 | 383.9 | 378.2 |
| 27 | 457.20 | 15.00 | 0.00 | 50.788 | 5.904 | 3.428 | 283.7 | 651.2 | 390.2 | 383.7 |
| 28 | 457.20 | 20.00 | 0.00 | 51.298 | 6.665 | 3.950 | 283.6 | 652.0 | 393.7 | 386.4 |
| 29 | 457.20 | 25.00 | 0.00 | 50.567 | 7.710 | 4.513 | 283.3 | 653.8 | 399.3 | 390.7 |
| 30 | 457.20 | 30.00 | 0.00 | 50.604 | 8.899 | 5.147 | 283.0 | 655.2 | 403.1 | 393.2 |
| 31 | 457.20 | 35.00 | 0.00 | 50.479 | 9.509 | 5.525 | 282.9 | 654.7 | 404.4 | 393.8 |
| 32 | 457.20 | 40.00 | 0.00 | 50.302 | 10.254 | 5.982 | 283.0 | 655.2 | 407.9 | 396.5 |
| 33 | 457.20 | 45.00 | 0.00 | 50.982 | 10.542 | 6.150 | 283.1 | 652.9 | 408.0 | 396.3 |
| 34 | 457.20 | 50.00 | 0.00 | 50.728 | 10.210 | 5.982 | 283.3 | 650.8 | 404.6 | 393.3 |
| 35 | 457.20 | 55.00 | 0.00 | 50.398 | 9.465 | 5.480 | 283.0 | 651.8 | 400.8 | 390.4 |
| 36 | 457.20 | 60.00 | 0.00 | 50.503 | 8.289 | 4.878 | 283.0 | 651.4 | 395.0 | 385.9 |
| 37 | 457.20 | 65.00 | 0.00 | 50.738 | 7.213 | 4.223 | 283.0 | 650.7 | 387.5 | 379.7 |
| 38 | 457.20 | 70.00 | 0.00 | 51.195 | 5.732 | 3.380 | 282.8 | 648.2 | 376.3 | 370.2 |
| 39 | 457.20 | 75.00 | 0.00 | 50.475 | 4.577 | 2.673 | 282.7 | 648.8 | 368.6 | 363.8 |
| 40 | 457.20 | 80.00 | 0.00 | 50.361 | 3.832 | 2.178 | 282.7 | 649.2 | 363.6 | 359.6 |
| 41 | 457.20 | 85.00 | 0.00 | 50.465 | 3.011 | 1.783 | 282.8 | 649.3 | 355.6 | 352.5 |
| 42 | 457.20 | 90.00 | 0.00 | 50.887 | 2.293 | 1.362 | 282.8 | 648.1 | 345.4 | 343.1 |
| 43 | 457.20 | 95.00 | 0.00 | 50.950 | 1.627 | 0.947 | 282.8 | 649.3 | 336.6 | 335.0 |
| 44 | 457.20 | 100.00 | 0.00 | 50.751 | 1.256 | 0.783 | 282.9 | 650.0 | 334.4 | 333.2 |
| 45 | 457.20 | 105.00 | 0.00 | 50.676 | 0.736 | 0.419 | 283.2 | 649.9 | 324.6 | 323.9 |
| 46 | 457.20 | 110.00 | 0.00 | 50.534 | 0.467 | 0.286 | 282.9 | 653.4 | 318.5 | 318.1 |

File : TAB360T 6-MAR-89
6-MAR-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 651 K
DRPTAB, PLTTAB
I-C

C1 : X/D = 9
C2 : VERTICAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.291 kPa

Mean gauged plenum pressure : 50.760 kPa
RMS gauged plenum pressure : 0.419 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.20 | 0.00 | -60.00 | 50.655 | 0.841 | 0.474 | 282.4 | 649.5 | 330.9 | 330.1 |
| 3 | 457.20 | 0.00 | -58.00 | 50.985 | 0.914 | 0.549 | 282.4 | 652.5 | 332.7 | 331.8 |
| 4 | 457.20 | 0.00 | -56.00 | 51.194 | 1.138 | 0.652 | 282.4 | 649.6 | 334.9 | 333.8 |
| 5 | 457.20 | 0.00 | -54.00 | 50.996 | 1.274 | 0.690 | 282.6 | 655.0 | 337.9 | 336.6 |
| 6 | 457.20 | 0.00 | -52.00 | 50.611 | 1.258 | 0.735 | 282.4 | 654.6 | 339.7 | 338.5 |
| 7 | 457.20 | 0.00 | -50.00 | 51.244 | 1.534 | 0.890 | 282.6 | 650.8 | 342.9 | 341.4 |
| 8 | 457.20 | 0.00 | -48.00 | 50.911 | 1.656 | 0.985 | 282.6 | 649.6 | 343.7 | 342.1 |
| 9 | 457.20 | 0.00 | -46.00 | 51.357 | 1.837 | 1.049 | 282.6 | 648.1 | 346.4 | 344.6 |
| 10 | 457.20 | 0.00 | -44.00 | 50.698 | 2.084 | 1.222 | 282.6 | 648.1 | 350.3 | 348.2 |
| 11 | 457.20 | 0.00 | -42.00 | 50.216 | 2.169 | 1.292 | 282.6 | 647.8 | 351.8 | 349.6 |
| 12 | 457.20 | 0.00 | -40.00 | 50.358 | 2.476 | 1.396 | 282.6 | 648.8 | 355.2 | 352.7 |
| 13 | 457.20 | 0.00 | -38.00 | 50.508 | 2.689 | 1.578 | 282.7 | 655.7 | 358.3 | 355.5 |
| 14 | 457.20 | 0.00 | -36.00 | 51.090 | 2.879 | 1.672 | 282.9 | 656.7 | 361.8 | 358.8 |
| 15 | 457.20 | 0.00 | -34.00 | 51.090 | 3.122 | 1.841 | 283.0 | 657.2 | 364.0 | 360.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 457.20 | 0.00 | -32.00 | 50.752 | 3.290 | 1.909 | 283.2 | 654.6 | 367.2 | 363.7 |
| 17 | 457.20 | 0.00 | -30.00 | 51.180 | 3.540 | 2.109 | 283.5 | 652.5 | 367.7 | 364.0 |
| 18 | 457.20 | 0.00 | -28.00 | 50.962 | 3.796 | 2.175 | 283.3 | 651.0 | 369.7 | 365.7 |
| 19 | 457.20 | 0.00 | -26.00 | 51.001 | 3.973 | 2.363 | 283.3 | 650.4 | 372.5 | 368.3 |
| 20 | 457.20 | 0.00 | -24.00 | 51.256 | 4.140 | 2.431 | 283.0 | 649.5 | 374.1 | 369.7 |
| 21 | 457.20 | 0.00 | -22.00 | 50.728 | 4.496 | 2.600 | 283.1 | 648.3 | 376.0 | 371.2 |
| 22 | 457.20 | 0.00 | -20.00 | 50.897 | 4.609 | 2.707 | 283.5 | 651.7 | 379.9 | 374.9 |
| 23 | 457.20 | 0.00 | -18.00 | 50.656 | 4.762 | 2.730 | 283.2 | 655.8 | 381.5 | 376.4 |
| 24 | 457.20 | 0.00 | -16.00 | 50.758 | 4.824 | 2.834 | 283.1 | 656.5 | 381.0 | 375.8 |
| 25 | 457.20 | 0.00 | -14.00 | 50.860 | 4.938 | 2.897 | 283.1 | 656.1 | 382.8 | 377.5 |
| 26 | 457.20 | 0.00 | -12.00 | 50.925 | 5.033 | 2.928 | 282.9 | 655.4 | 382.5 | 377.1 |
| 27 | 457.20 | 0.00 | -10.00 | 50.498 | 5.040 | 2.900 | 282.9 | 655.5 | 384.2 | 378.7 |
| 28 | 457.20 | 0.00 | -8.00 | 50.523 | 5.089 | 2.926 | 282.9 | 654.8 | 382.4 | 376.9 |
| 29 | 457.20 | 0.00 | -6.00 | 50.676 | 5.118 | 2.977 | 283.0 | 653.9 | 383.6 | 378.1 |
| 30 | 457.20 | 0.00 | -4.00 | 50.868 | 5.139 | 2.966 | 282.9 | 651.4 | 382.9 | 377.3 |
| 31 | 457.20 | 0.00 | -2.00 | 50.436 | 4.943 | 2.880 | 282.8 | 651.2 | 381.6 | 376.3 |
| 32 | 457.20 | 0.00 | 0.00 | 50.275 | 4.909 | 2.841 | 282.7 | 651.1 | 381.1 | 375.8 |
| 33 | 457.20 | 0.00 | 2.00 | 50.480 | 4.801 | 2.760 | 282.8 | 650.4 | 379.6 | 374.4 |
| 34 | 457.20 | 0.00 | 4.00 | 50.868 | 4.705 | 2.741 | 282.7 | 649.8 | 378.8 | 373.8 |
| 35 | 457.20 | 0.00 | 6.00 | 50.997 | 4.423 | 2.577 | 282.6 | 650.2 | 377.7 | 373.0 |
| 36 | 457.20 | 0.00 | 8.00 | 49.865 | 4.313 | 2.503 | 282.7 | 652.5 | 377.4 | 372.8 |
| 37 | 457.20 | 0.00 | 10.00 | 50.257 | 4.076 | 2.353 | 282.7 | 652.3 | 374.6 | 370.3 |

File : TAB357T 3-MAR-89
3-MAR-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 655 K
DRPTAB, PLTTAB
I-C

C1 : X/D = 13
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.528 kPa

Mean gauged plenum pressure : 47.539 kPa
RMS gauged plenum pressure : 11.885 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 660.40 | -144.00 | 0.00 | 51.400 | 0.124 | 0.094 | 283.7 | 650.4 | 306.1 | 306.0 |
| 5 | 660.40 | -136.00 | 0.00 | 50.585 | 0.346 | 0.214 | 283.6 | 649.8 | 312.6 | 312.3 |
| 6 | 660.40 | -128.00 | 0.00 | 50.442 | 0.603 | 0.350 | 283.6 | 653.1 | 318.5 | 317.9 |
| 7 | 660.40 | -120.00 | 0.00 | 50.652 | 0.870 | 0.528 | 283.6 | 654.6 | 324.4 | 323.6 |
| 8 | 660.40 | -112.00 | 0.00 | 50.595 | 1.370 | 0.737 | 283.6 | 654.8 | 330.9 | 329.6 |
| 9 | 660.40 | -104.00 | 0.00 | 51.078 | 1.908 | 1.138 | 283.6 | 655.7 | 338.7 | 336.8 |
| 10 | 660.40 | -96.00 | 0.00 | 51.129 | 2.475 | 1.498 | 283.6 | 657.8 | 345.0 | 342.5 |
| 11 | 660.40 | -88.00 | 0.00 | 50.747 | 3.126 | 1.875 | 283.6 | 659.1 | 350.9 | 347.8 |
| 12 | 660.40 | -80.00 | 0.00 | 50.897 | 3.999 | 2.327 | 283.6 | 658.5 | 357.8 | 353.7 |
| 13 | 660.40 | -72.00 | 0.00 | 50.428 | 4.581 | 2.667 | 283.7 | 659.2 | 363.6 | 358.9 |
| 14 | 660.40 | -64.00 | 0.00 | 51.197 | 5.205 | 3.041 | 283.7 | 656.9 | 367.7 | 362.3 |
| 15 | 660.40 | -56.00 | 0.00 | 51.253 | 5.663 | 3.305 | 283.7 | 653.9 | 370.1 | 364.2 |
| 16 | 660.40 | -48.00 | 0.00 | 50.520 | 5.690 | 3.403 | 283.7 | 654.9 | 372.2 | 366.2 |
| 17 | 660.40 | -40.00 | 0.00 | 50.518 | 5.506 | 3.220 | 283.7 | 654.9 | 371.7 | 365.9 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 18 | 660.40 | -32.00 | 0.00 | 50.623 | 5.163 | 3.035 | 283.7 | 654.2 | 371.2 | 365.8 |
| 19 | 660.40 | -24.00 | 0.00 | 50.952 | 4.720 | 2.819 | 283.6 | 655.1 | 367.7 | 362.8 |
| 20 | 660.40 | -16.00 | 0.00 | 51.282 | 4.386 | 2.571 | 283.6 | 652.8 | 366.6 | 362.0 |
| 21 | 660.40 | -8.00 | 0.00 | 50.832 | 4.027 | 2.355 | 283.5 | 656.8 | 366.2 | 362.0 |
| 22 | 660.40 | 0.00 | 0.00 | 50.646 | 3.916 | 2.263 | 283.6 | 659.0 | 364.9 | 360.8 |
| 23 | 660.40 | 8.00 | 0.00 | 50.656 | 4.001 | 2.334 | 283.6 | 659.3 | 365.0 | 360.8 |
| 24 | 660.40 | 16.00 | 0.00 | 50.667 | 4.263 | 2.501 | 283.5 | 658.3 | 366.4 | 362.0 |
| 25 | 660.40 | 24.00 | 0.00 | 51.419 | 4.625 | 2.714 | 283.6 | 655.1 | 368.8 | 364.0 |
| 26 | 660.40 | 32.00 | 0.00 | 50.600 | 5.019 | 2.952 | 283.6 | 655.0 | 371.6 | 366.3 |
| 27 | 660.40 | 40.00 | 0.00 | 50.443 | 5.401 | 3.174 | 283.7 | 655.8 | 371.6 | 365.9 |
| 28 | 660.40 | 48.00 | 0.00 | 50.572 | 5.527 | 3.230 | 283.7 | 655.9 | 372.7 | 366.9 |
| 29 | 660.40 | 56.00 | 0.00 | 50.363 | 5.484 | 3.218 | 283.8 | 655.9 | 370.6 | 364.9 |
| 30 | 660.40 | 64.00 | 0.00 | 50.933 | 5.036 | 2.893 | 283.8 | 654.2 | 365.6 | 360.4 |
| 31 | 660.40 | 72.00 | 0.00 | 51.202 | 4.568 | 2.686 | 283.8 | 652.0 | 364.1 | 359.4 |
| 32 | 660.40 | 80.00 | 0.00 | 50.773 | 3.777 | 2.121 | 283.8 | 652.2 | 358.5 | 354.6 |
| 33 | 660.40 | 88.00 | 0.00 | 50.532 | 2.953 | 1.694 | 283.8 | 654.3 | 351.7 | 348.7 |
| 34 | 660.40 | 96.00 | 0.00 | 50.428 | 2.164 | 1.286 | 283.8 | 656.4 | 344.8 | 342.7 |
| 35 | 660.40 | 104.00 | 0.00 | 51.393 | 1.706 | 1.035 | 283.9 | 653.9 | 339.1 | 337.4 |
| 36 | 660.40 | 112.00 | 0.00 | 51.128 | 1.091 | 0.643 | 283.9 | 653.4 | 331.3 | 330.3 |
| 37 | 660.40 | 120.00 | 0.00 | 50.487 | 0.780 | 0.508 | 283.9 | 654.3 | 326.5 | 325.8 |
| 38 | 660.40 | 128.00 | 0.00 | 50.322 | 0.590 | 0.348 | 284.0 | 654.6 | 319.3 | 318.8 |
| 39 | 660.40 | 136.00 | 0.00 | 50.498 | 0.271 | 0.155 | 283.9 | 653.7 | 312.8 | 312.6 |
| 40 | 660.40 | 144.00 | 0.00 | 51.242 | 0.143 | 0.098 | 283.9 | 652.0 | 310.7 | 310.6 |
| 41 | 660.40 | 152.00 | 0.00 | 50.802 | 0.065 | 0.056 | 284.0 | 650.7 | 305.4 | 305.3 |
| 42 | 660.40 | 160.00 | 0.00 | 50.560 | 0.016 | 0.024 | 284.0 | 653.9 | 300.4 | 300.4 |

File : TAB358T 3-MAR-89
3-MAR-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 655 K
DRPTAB, PLTTAB
I-C

C1 : X/D = 13
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 97.460 kPa

Mean gauged plenum pressure : 50.747 kPa
RMS gauged plenum pressure : 0.353 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 660.40 | 0.00 | -120.00 | 50.484 | 0.013 | 0.014 | 284.2 | 652.1 | 298.7 | 298.7 |
| 3 | 660.40 | 0.00 | -116.00 | 50.924 | 0.014 | 0.017 | 284.2 | 650.8 | 295.1 | 295.1 |
| 4 | 660.40 | 0.00 | -112.00 | 50.863 | 0.013 | 0.019 | 284.2 | 650.2 | 297.2 | 297.2 |
| 5 | 660.40 | 0.00 | -108.00 | 50.539 | 0.028 | 0.027 | 284.2 | 653.6 | 299.3 | 299.3 |
| 6 | 660.40 | 0.00 | -104.00 | 50.680 | 0.023 | 0.024 | 284.1 | 652.9 | 301.8 | 301.8 |
| 7 | 660.40 | 0.00 | -100.00 | 50.322 | 0.058 | 0.042 | 284.1 | 652.6 | 304.4 | 304.3 |
| 8 | 660.40 | 0.00 | -96.00 | 51.235 | 0.068 | 0.057 | 284.2 | 654.6 | 307.2 | 307.1 |
| 9 | 660.40 | 0.00 | -92.00 | 50.711 | 0.109 | 0.085 | 284.3 | 655.3 | 309.8 | 309.7 |
| 10 | 660.40 | 0.00 | -88.00 | 50.480 | 0.175 | 0.113 | 284.3 | 655.2 | 311.9 | 311.7 |
| 11 | 660.40 | 0.00 | -84.00 | 50.319 | 0.259 | 0.149 | 284.3 | 654.7 | 316.3 | 316.1 |
| 12 | 660.40 | 0.00 | -80.00 | 49.896 | 0.300 | 0.195 | 284.3 | 655.1 | 317.6 | 317.3 |
| 13 | 660.40 | 0.00 | -76.00 | 51.201 | 0.403 | 0.241 | 284.4 | 651.5 | 320.5 | 320.1 |
| 14 | 660.40 | 0.00 | -72.00 | 51.288 | 0.475 | 0.308 | 284.4 | 651.4 | 324.1 | 323.7 |
| 15 | 660.40 | 0.00 | -68.00 | 50.800 | 0.604 | 0.358 | 284.4 | 654.4 | 326.0 | 325.4 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 660.40 | 0.00 | -64.00 | 50.534 | 0.814 | 0.452 | 284.3 | 655.7 | 328.9 | 328.1 |
| 17 | 660.40 | 0.00 | -60.00 | 50.515 | 0.937 | 0.528 | 284.2 | 656.0 | 332.6 | 331.7 |
| 18 | 660.40 | 0.00 | -56.00 | 51.272 | 1.105 | 0.632 | 284.3 | 655.2 | 334.2 | 333.1 |
| 19 | 660.40 | 0.00 | -52.00 | 51.226 | 1.308 | 0.775 | 284.3 | 651.2 | 337.8 | 336.5 |
| 20 | 660.40 | 0.00 | -48.00 | 50.609 | 1.506 | 0.872 | 284.2 | 651.7 | 340.5 | 339.0 |
| 21 | 660.40 | 0.00 | -44.00 | 50.558 | 1.729 | 0.990 | 284.1 | 653.9 | 344.3 | 342.6 |
| 22 | 660.40 | 0.00 | -40.00 | 50.632 | 2.028 | 1.212 | 284.2 | 653.4 | 347.3 | 345.3 |
| 23 | 660.40 | 0.00 | -36.00 | 51.058 | 2.245 | 1.315 | 284.3 | 651.0 | 348.8 | 346.5 |
| 24 | 660.40 | 0.00 | -32.00 | 50.831 | 2.488 | 1.449 | 284.3 | 651.4 | 352.6 | 350.1 |
| 25 | 660.40 | 0.00 | -28.00 | 50.480 | 2.830 | 1.637 | 284.4 | 651.5 | 354.6 | 351.7 |
| 26 | 660.40 | 0.00 | -24.00 | 50.645 | 3.034 | 1.745 | 284.4 | 651.0 | 357.4 | 354.3 |
| 27 | 660.40 | 0.00 | -20.00 | 50.472 | 3.220 | 1.931 | 284.4 | 651.8 | 358.7 | 355.4 |
| 28 | 660.40 | 0.00 | -16.00 | 51.196 | 3.528 | 2.037 | 284.2 | 650.4 | 360.9 | 357.3 |
| 29 | 660.40 | 0.00 | -12.00 | 50.521 | 3.639 | 2.184 | 284.2 | 651.9 | 362.5 | 358.7 |
| 30 | 660.40 | 0.00 | -8.00 | 50.699 | 3.808 | 2.222 | 284.3 | 654.0 | 364.7 | 360.7 |
| 31 | 660.40 | 0.00 | -4.00 | 50.649 | 3.915 | 2.262 | 284.3 | 653.3 | 363.9 | 359.8 |
| 32 | 660.40 | 0.00 | 0.00 | 50.944 | 3.889 | 2.300 | 284.3 | 652.3 | 365.0 | 361.0 |
| 33 | 660.40 | 0.00 | 4.00 | 50.941 | 3.952 | 2.297 | 284.2 | 650.9 | 364.3 | 360.2 |
| 34 | 660.40 | 0.00 | 8.00 | 50.608 | 3.825 | 2.204 | 284.2 | 652.6 | 365.3 | 361.3 |
| 35 | 660.40 | 0.00 | 12.00 | 50.552 | 3.700 | 2.184 | 284.2 | 653.0 | 363.1 | 359.3 |
| 36 | 660.40 | 0.00 | 16.00 | 50.689 | 3.508 | 2.028 | 284.1 | 652.7 | 361.8 | 358.2 |
| 37 | 660.40 | 0.00 | 20.00 | 51.366 | 3.357 | 1.952 | 284.1 | 654.2 | 361.6 | 358.1 |

| CONFIGURATION | $X/D_E$ | $T_j/T_o$ | $M_j$ | HORIZONTAL | VERTICAL | COMMENTS |
|---|---|---|---|---|---|---|
| TWO-INCH ROUND | 11 | 1 | 0.8 | TAB366T | TAB367T | BASELINE |
| " | 15 | 1 | 0.8 | TAB369T | TAB368T | BASELINE |
| FOUR-INCH PIPE | 1 | 1 | 0.2 | --- | TAB058S | BASELINE |
| TWO-INCH ROUND | 3 | 1.6 | 0.8 | TAB506T | TAB505S | KIEL PROBE W/ T/C |
| " | 3 | 1.6 | 0.8 | TAB504S | --- | KIEL PROBE W/O T/C |
| " | 3 | 1 | 0.6 | TAB510S | --- | BOUNDARY LAYER PROBE |
| " | 3 | 1.6 | 0.8 | --- | TAB523 | KIEL PROBE W/ T/C INVERTED PROFILE FROM ABOVE |
| " | 3 | 1.6 | 0.8 | --- | TAB508S | BOUNDARY LAYER PROBE |
| " | 1 | 1.6 | 0.8 | TAB513T | --- | CENTRO PROBE |
| " | 1 | 1.6 | 0.8 | TAB515T | --- | KIEL PROBE W/ T/C |
| O-O | 1 | 1 | 0.8 | --- | TAB049S | NORMAL NOZZLE |
| " | 1 | 1 | 0.8 | --- | TAB053S | INVERTED NOZZLE & PROFILE |
| " | 1 | 1 | 0.8 | --- | TAB048S | SKEWED PROFILE |
| TWO-INCH ROUND | 9 | 1 | 0.8 | TAB519S | --- | KIEL PROBE W/ T/C |
| " | 9 | 1 | 0.8 | TAB520S | --- | BOUNDARY LAYER PROBE |
| O-O | 1 | 1 | 0.8 | TAB135T | --- | |
| " | 1 | 1 | 0.8 | TAB136T | --- | |

Figure 13 Miscellaneous

File : TAB366T 10-MAR-89
10-MAR-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTABC
ROUND

C1 : X/D = 11
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.679 kPa

Mean gauged plenum pressure : 51.587 kPa
RMS gauged plenum pressure : 0.341 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 558.80 | -160.00 | 0.00 | 51.866 | 0.026 | 0.044 | 292.6 | 283.6 | 290.0 | 290.0 |
| 3 | 558.80 | -152.00 | 0.00 | 51.636 | 0.015 | 0.033 | 292.5 | 283.6 | 291.6 | 291.6 |
| 4 | 558.80 | -144.00 | 0.00 | 51.772 | 0.014 | 0.032 | 292.4 | 283.6 | 292.3 | 292.3 |
| 5 | 558.80 | -136.00 | 0.00 | 51.723 | 0.013 | 0.029 | 292.7 | 283.6 | 292.2 | 292.2 |
| 6 | 558.80 | -128.00 | 0.00 | 51.153 | 0.012 | 0.023 | 292.9 | 283.6 | 292.2 | 292.2 |
| 7 | 558.80 | -120.00 | 0.00 | 51.699 | 0.012 | 0.016 | 292.9 | 283.6 | 292.4 | 292.4 |
| 8 | 558.80 | -112.00 | 0.00 | 51.619 | 0.012 | 0.019 | 292.7 | 283.6 | 291.8 | 291.8 |
| 9 | 558.80 | -104.00 | 0.00 | 51.681 | 0.011 | 0.013 | 292.9 | 283.6 | 291.7 | 291.7 |
| 10 | 558.80 | -96.00 | 0.00 | 51.699 | 0.011 | 0.011 | 292.9 | 283.5 | 291.5 | 291.5 |
| 11 | 558.80 | -88.00 | 0.00 | 51.141 | 0.019 | 0.052 | 293.4 | 283.5 | 291.4 | 291.4 |
| 12 | 558.80 | -80.00 | 0.00 | 51.513 | 0.214 | 0.119 | 293.9 | 283.5 | 290.5 | 290.3 |
| 13 | 558.80 | -72.00 | 0.00 | 51.819 | 0.615 | 0.333 | 293.9 | 283.5 | 289.9 | 289.4 |
| 14 | 558.80 | -64.00 | 0.00 | 51.912 | 1.329 | 0.689 | 293.9 | 283.6 | 289.0 | 287.9 |
| 15 | 558.80 | -56.00 | 0.00 | 51.683 | 2.331 | 1.401 | 293.8 | 283.6 | 288.0 | 286.1 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 558.80 | -48.00 | 0.00 | 51.472 | 4.368 | 2.495 | 294.0 | 283.5 | 287.0 | 283.5 |
| 17 | 558.80 | -40.00 | 0.00 | 51.391 | 7.212 | 4.177 | 293.7 | 283.5 | 286.5 | 280.8 |
| 18 | 558.80 | -32.00 | 0.00 | 51.670 | 10.454 | 6.089 | 293.7 | 283.6 | 285.6 | 277.5 |
| 19 | 558.80 | -24.00 | 0.00 | 51.856 | 15.196 | 8.852 | 293.6 | 283.6 | 285.2 | 273.7 |
| 20 | 558.80 | -16.00 | 0.00 | 51.769 | 20.850 | 12.043 | 293.5 | 283.6 | 285.0 | 269.8 |
| 21 | 558.80 | -8.00 | 0.00 | 51.237 | 24.828 | 14.357 | 293.5 | 283.5 | 285.2 | 267.4 |
| 22 | 558.80 | 0.00 | 0.00 | 51.336 | 25.727 | 14.983 | 293.4 | 283.5 | 285.2 | 266.9 |
| 23 | 558.80 | 8.00 | 0.00 | 51.696 | 23.797 | 13.783 | 293.3 | 283.5 | 285.2 | 268.1 |
| 24 | 558.80 | 16.00 | 0.00 | 51.616 | 18.899 | 10.866 | 293.3 | 283.5 | 284.9 | 271.0 |
| 25 | 558.80 | 24.00 | 0.00 | 51.602 | 13.745 | 7.950 | 293.4 | 283.5 | 284.8 | 274.4 |
| 26 | 558.80 | 32.00 | 0.00 | 51.555 | 9.379 | 5.385 | 293.5 | 283.5 | 285.1 | 277.8 |
| 27 | 558.80 | 40.00 | 0.00 | 51.305 | 5.990 | 3.434 | 293.5 | 283.5 | 286.0 | 281.2 |
| 28 | 558.80 | 48.00 | 0.00 | 51.283 | 3.664 | 2.050 | 293.6 | 283.5 | 286.9 | 283.9 |
| 29 | 558.80 | 56.00 | 0.00 | 51.910 | 2.113 | 1.237 | 293.4 | 283.5 | 287.5 | 285.8 |
| 30 | 558.80 | 64.00 | 0.00 | 52.403 | 1.145 | 0.673 | 293.4 | 283.5 | 288.1 | 287.2 |
| 31 | 558.80 | 72.00 | 0.00 | 51.452 | 0.537 | 0.316 | 293.2 | 283.5 | 289.1 | 288.7 |
| 32 | 558.80 | 80.00 | 0.00 | 51.191 | 0.226 | 0.128 | 293.3 | 283.5 | 290.0 | 289.8 |
| 33 | 558.80 | 88.00 | 0.00 | 51.992 | 0.034 | 0.037 | 293.2 | 283.5 | 290.1 | 290.1 |
| 34 | 558.80 | 96.00 | 0.00 | 51.871 | 0.013 | 0.011 | 293.3 | 283.5 | 291.5 | 291.5 |
| 35 | 558.80 | 104.00 | 0.00 | 51.862 | 0.013 | 0.010 | 293.5 | 283.5 | 291.6 | 291.6 |
| 36 | 558.80 | 112.00 | 0.00 | 50.980 | 0.012 | 0.011 | 293.4 | 283.5 | 291.9 | 291.9 |
| 37 | 558.80 | 120.00 | 0.00 | 51.308 | 0.013 | 0.012 | 293.2 | 283.5 | 291.8 | 291.8 |
| 38 | 558.80 | 128.00 | 0.00 | 51.532 | 0.013 | 0.011 | 293.2 | 283.6 | 291.7 | 291.7 |
| 39 | 558.80 | 136.00 | 0.00 | 51.637 | 0.013 | 0.011 | 293.1 | 283.5 | 292.2 | 292.2 |
| 40 | 558.80 | 144.00 | 0.00 | 51.768 | 0.013 | 0.013 | 293.2 | 283.6 | 292.0 | 292.0 |
| 41 | 558.80 | 152.00 | 0.00 | 51.028 | 0.013 | 0.012 | 293.2 | 283.6 | 292.5 | 292.5 |
| 42 | 558.80 | 160.00 | 0.00 | 51.040 | 0.013 | 0.012 | 293.4 | 283.5 | 292.6 | 292.6 |

File : TAB367T 10-MAR-89
10-MAR-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTABC
ROUND

C1 : X/D = 11
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 98.578 kPa

Mean gauged plenum pressure : 51.536 kPa
RMS gauged plenum pressure : 0.309 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 558.80 | 0.00 | -160.00 | 51.358 | 0.030 | 0.040 | 293.5 | 283.6 | 292.5 | 292.5 |
| 3 | 558.80 | 0.00 | -152.00 | 51.831 | 0.017 | 0.024 | 293.8 | 283.6 | 293.0 | 293.0 |
| 4 | 558.80 | 0.00 | -144.00 | 51.640 | 0.014 | 0.030 | 294.0 | 283.5 | 293.0 | 293.0 |
| 5 | 558.80 | 0.00 | -136.00 | 51.617 | 0.014 | 0.028 | 294.2 | 283.6 | 292.9 | 292.9 |
| 6 | 558.80 | 0.00 | -128.00 | 51.374 | 0.014 | 0.035 | 294.1 | 283.5 | 292.6 | 292.6 |
| 7 | 558.80 | 0.00 | -120.00 | 51.776 | 0.013 | 0.012 | 294.0 | 283.6 | 292.8 | 292.8 |
| 8 | 558.80 | 0.00 | -112.00 | 51.721 | 0.013 | 0.012 | 294.1 | 283.6 | 292.8 | 292.8 |
| 9 | 558.80 | 0.00 | -104.00 | 51.702 | 0.013 | 0.012 | 294.2 | 283.6 | 292.6 | 292.6 |
| 10 | 558.80 | 0.00 | -96.00 | 51.320 | 0.014 | 0.034 | 294.1 | 283.6 | 292.1 | 292.1 |
| 11 | 558.80 | 0.00 | -88.00 | 51.368 | 0.101 | 0.100 | 294.1 | 283.7 | 291.3 | 291.2 |
| 12 | 558.80 | 0.00 | -80.00 | 51.439 | 0.287 | 0.223 | 293.8 | 283.6 | 290.0 | 289.8 |
| 13 | 558.80 | 0.00 | -72.00 | 51.894 | 0.826 | 0.467 | 293.7 | 283.6 | 289.6 | 288.9 |
| 14 | 558.80 | 0.00 | -64.00 | 51.712 | 1.502 | 0.933 | 294.0 | 283.6 | 289.4 | 288.2 |
| 15 | 558.80 | 0.00 | -56.00 | 51.410 | 2.656 | 1.601 | 294.2 | 283.6 | 288.8 | 286.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 558.80 | 0.00 | -48.00 | 51.557 | 4.710 | 2.780 | 294.4 | 283.6 | 287.7 | 283.9 |
| 17 | 558.80 | 0.00 | -40.00 | 52.034 | 7.200 | 4.223 | 294.9 | 283.6 | 286.8 | 281.1 |
| 18 | 558.80 | 0.00 | -32.00 | 51.727 | 10.843 | 6.315 | 295.3 | 283.7 | 286.2 | 277.8 |
| 19 | 558.80 | 0.00 | -24.00 | 51.856 | 15.784 | 9.104 | 295.0 | 283.6 | 285.9 | 274.0 |
| 20 | 558.80 | 0.00 | -16.00 | 51.336 | 20.711 | 12.073 | 295.0 | 283.6 | 285.4 | 270.2 |
| 21 | 558.80 | 0.00 | -8.00 | 51.511 | 24.932 | 14.537 | 294.7 | 283.6 | 285.5 | 267.6 |
| 22 | 558.80 | 0.00 | 0.00 | 51.685 | 25.931 | 15.043 | 294.8 | 283.6 | 285.7 | 267.2 |
| 23 | 558.80 | 0.00 | 8.00 | 51.584 | 23.857 | 13.856 | 294.4 | 283.6 | 285.4 | 268.2 |
| 24 | 558.80 | 0.00 | 16.00 | 51.374 | 19.397 | 11.417 | 294.1 | 283.7 | 285.6 | 271.3 |
| 25 | 558.80 | 0.00 | 24.00 | 51.227 | 14.856 | 8.632 | 294.0 | 283.6 | 285.5 | 274.3 |
| 26 | 558.80 | 0.00 | 32.00 | 51.553 | 11.097 | 6.350 | 294.1 | 283.7 | 286.0 | 277.4 |
| 27 | 558.80 | 0.00 | 40.00 | 51.428 | 7.630 | 4.401 | 294.1 | 283.7 | 286.5 | 280.5 |
| 28 | 558.80 | 0.00 | 48.00 | 51.728 | 4.952 | 2.789 | 294.0 | 283.7 | 287.5 | 283.5 |
| 29 | 558.80 | 0.00 | 56.00 | 51.400 | 3.157 | 1.769 | 294.0 | 283.7 | 288.2 | 285.6 |
| 30 | 558.80 | 0.00 | 64.00 | 51.352 | 1.867 | 1.066 | 294.2 | 283.7 | 289.1 | 287.6 |
| 31 | 558.80 | 0.00 | 72.00 | 51.648 | 0.836 | 0.490 | 294.3 | 283.6 | 290.1 | 289.4 |
| 32 | 558.80 | 0.00 | 80.00 | 51.883 | 0.389 | 0.249 | 294.4 | 283.7 | 290.9 | 290.6 |
| 33 | 558.80 | 0.00 | 88.00 | 51.323 | 0.143 | 0.118 | 294.6 | 283.7 | 291.0 | 290.9 |
| 34 | 558.80 | 0.00 | 96.00 | 51.265 | 0.039 | 0.060 | 294.4 | 283.7 | 291.4 | 291.4 |
| 35 | 558.80 | 0.00 | 104.00 | 51.918 | 0.013 | 0.017 | 294.4 | 283.7 | 291.9 | 291.9 |
| 36 | 558.80 | 0.00 | 112.00 | 51.604 | 0.013 | 0.024 | 294.3 | 283.7 | 292.2 | 292.2 |
| 37 | 558.80 | 0.00 | 120.00 | 51.882 | 0.013 | 0.013 | 294.3 | 283.7 | 293.0 | 293.0 |
| 38 | 558.80 | 0.00 | 128.00 | 51.439 | 0.014 | 0.018 | 294.3 | 283.6 | 293.9 | 293.9 |
| 39 | 558.80 | 0.00 | 136.00 | 51.216 | 0.014 | 0.019 | 294.2 | 283.7 | 293.3 | 293.3 |
| 40 | 558.80 | 0.00 | 144.00 | 51.718 | 0.013 | 0.019 | 294.2 | 283.6 | 292.7 | 292.7 |
| 41 | 558.80 | 0.00 | 152.00 | 51.475 | 0.014 | 0.027 | 293.9 | 283.6 | 292.5 | 292.5 |
| 42 | 558.80 | 0.00 | 160.00 | 51.398 | 0.014 | 0.021 | 293.9 | 283.6 | 292.6 | 292.6 |

File : TAB369T 13-MAR-89
13-MAR-89

Reduced experimental data file

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTABC
ROUND

C1 : X/D = 15
C2 : HORIZONTAL
C3 : ZERO
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.596 kPa

Mean gauged plenum pressure : 50.979 kPa
RMS gauged plenum pressure : 0.290 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 762.00 | -160.00 | 0.00 | 50.596 | 0.014 | 0.012 | 294.5 | 287.8 | 293.0 | 293.0 |
| 3 | 762.00 | -152.00 | 0.00 | 51.024 | 0.013 | 0.012 | 294.7 | 287.1 | 293.5 | 293.5 |
| 4 | 762.00 | -144.00 | 0.00 | 51.165 | 0.012 | 0.011 | 294.7 | 286.5 | 293.2 | 293.2 |
| 5 | 762.00 | -136.00 | 0.00 | 51.097 | 0.011 | 0.011 | 294.8 | 286.1 | 293.4 | 293.4 |
| 6 | 762.00 | -128.00 | 0.00 | 50.575 | 0.010 | 0.010 | 294.8 | 285.7 | 293.4 | 293.4 |
| 7 | 762.00 | -120.00 | 0.00 | 50.789 | 0.010 | 0.010 | 294.9 | 285.5 | 292.8 | 292.8 |
| 8 | 762.00 | -112.00 | 0.00 | 51.267 | 0.026 | 0.025 | 294.6 | 285.3 | 291.8 | 291.8 |
| 9 | 762.00 | -104.00 | 0.00 | 51.151 | 0.054 | 0.035 | 294.4 | 285.1 | 292.4 | 292.4 |
| 10 | 762.00 | -96.00 | 0.00 | 51.349 | 0.226 | 0.116 | 294.0 | 285.0 | 291.4 | 291.2 |
| 11 | 762.00 | -88.00 | 0.00 | 50.778 | 0.493 | 0.288 | 293.6 | 284.9 | 290.7 | 290.3 |
| 12 | 762.00 | -80.00 | 0.00 | 50.671 | 0.909 | 0.525 | 293.4 | 284.9 | 290.1 | 289.3 |
| 13 | 762.00 | -72.00 | 0.00 | 50.928 | 1.366 | 0.797 | 293.3 | 284.8 | 289.9 | 288.7 |
| 14 | 762.00 | -64.00 | 0.00 | 50.968 | 2.175 | 1.318 | 293.4 | 284.8 | 289.5 | 287.7 |
| 15 | 762.00 | -56.00 | 0.00 | 51.232 | 3.317 | 1.853 | 293.5 | 284.8 | 289.3 | 286.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 762.00 | -48.00 | 0.00 | 50.549 | 4.715 | 2.661 | 293.6 | 284.8 | 288.8 | 284.9 |
| 17 | 762.00 | -40.00 | 0.00 | 50.694 | 6.511 | 3.785 | 294.0 | 284.7 | 288.9 | 283.6 |
| 18 | 762.00 | -32.00 | 0.00 | 51.148 | 8.465 | 4.958 | 293.9 | 284.7 | 288.6 | 281.8 |
| 19 | 762.00 | -24.00 | 0.00 | 51.091 | 10.429 | 6.083 | 293.9 | 284.7 | 288.6 | 280.3 |
| 20 | 762.00 | -16.00 | 0.00 | 51.198 | 12.474 | 7.248 | 293.8 | 284.6 | 288.3 | 278.5 |
| 21 | 762.00 | -8.00 | 0.00 | 50.875 | 13.719 | 8.006 | 293.5 | 284.5 | 288.3 | 277.6 |
| 22 | 762.00 | 0.00 | 0.00 | 50.688 | 14.232 | 8.318 | 293.3 | 284.5 | 288.5 | 277.5 |
| 23 | 762.00 | 8.00 | 0.00 | 51.312 | 13.697 | 7.957 | 293.2 | 284.6 | 288.1 | 277.5 |
| 24 | 762.00 | 16.00 | 0.00 | 51.069 | 11.796 | 6.851 | 293.0 | 284.5 | 288.1 | 278.8 |
| 25 | 762.00 | 24.00 | 0.00 | 51.216 | 10.113 | 5.816 | 293.2 | 284.5 | 288.4 | 280.4 |
| 26 | 762.00 | 32.00 | 0.00 | 50.513 | 7.710 | 4.541 | 293.4 | 284.5 | 288.0 | 281.8 |
| 27 | 762.00 | 40.00 | 0.00 | 50.602 | 6.119 | 3.435 | 293.2 | 284.5 | 287.9 | 282.9 |
| 28 | 762.00 | 48.00 | 0.00 | 51.285 | 4.570 | 2.710 | 292.9 | 284.4 | 287.9 | 284.2 |
| 29 | 762.00 | 56.00 | 0.00 | 51.289 | 3.087 | 1.724 | 292.7 | 284.4 | 288.4 | 285.8 |
| 30 | 762.00 | 64.00 | 0.00 | 51.206 | 2.154 | 1.287 | 292.7 | 284.4 | 288.8 | 287.0 |
| 31 | 762.00 | 72.00 | 0.00 | 50.718 | 1.560 | 0.843 | 292.9 | 284.4 | 289.2 | 287.9 |
| 32 | 762.00 | 80.00 | 0.00 | 50.728 | 0.952 | 0.567 | 292.9 | 284.3 | 289.6 | 288.8 |
| 33 | 762.00 | 88.00 | 0.00 | 51.171 | 0.589 | 0.377 | 292.9 | 284.3 | 289.9 | 289.4 |
| 34 | 762.00 | 96.00 | 0.00 | 50.938 | 0.318 | 0.184 | 293.2 | 284.3 | 290.5 | 290.2 |
| 35 | 762.00 | 104.00 | 0.00 | 51.285 | 0.159 | 0.100 | 293.5 | 284.3 | 290.6 | 290.5 |
| 36 | 762.00 | 112.00 | 0.00 | 50.994 | 0.039 | 0.059 | 293.6 | 284.2 | 291.1 | 291.1 |
| 37 | 762.00 | 120.00 | 0.00 | 50.846 | 0.018 | 0.021 | 293.7 | 284.2 | 291.4 | 291.4 |
| 38 | 762.00 | 128.00 | 0.00 | 51.181 | 0.013 | 0.020 | 293.7 | 284.3 | 291.7 | 291.7 |
| 39 | 762.00 | 136.00 | 0.00 | 51.159 | 0.012 | 0.016 | 293.6 | 284.3 | 292.2 | 292.2 |
| 40 | 762.00 | 144.00 | 0.00 | 51.140 | 0.012 | 0.012 | 293.9 | 284.2 | 292.5 | 292.5 |
| 41 | 762.00 | 152.00 | 0.00 | 50.752 | 0.013 | 0.022 | 293.5 | 284.2 | 292.3 | 292.3 |
| 42 | 762.00 | 160.00 | 0.00 | 50.724 | 0.013 | 0.025 | 293.1 | 284.2 | 292.3 | 292.3 |

File : TAB368T 13-MAR-89
13-MAR-89

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB, PLTTABC
ROUND

C1 : X/D = 15
C2 : ZERO
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.799 kPa

Mean gauged plenum pressure : 51.008 kPa
RMS gauged plenum pressure : 0.255 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 762.00 | 0.00 | -160.00 | 50.773 | 0.010 | 0.009 | 289.8 | 283.7 | 288.8 | 288.8 |
| 3 | 762.00 | 0.00 | -152.00 | 50.488 | 0.009 | 0.009 | 289.7 | 283.7 | 289.3 | 289.3 |
| 4 | 762.00 | 0.00 | -144.00 | 51.239 | 0.009 | 0.008 | 289.7 | 283.7 | 289.2 | 289.2 |
| 5 | 762.00 | 0.00 | -136.00 | 51.109 | 0.008 | 0.007 | 289.8 | 283.7 | 289.3 | 289.3 |
| 6 | 762.00 | 0.00 | -128.00 | 50.725 | 0.009 | 0.008 | 290.0 | 283.7 | 289.2 | 289.2 |
| 7 | 762.00 | 0.00 | -120.00 | 50.763 | 0.012 | 0.015 | 290.0 | 283.7 | 288.9 | 288.9 |
| 8 | 762.00 | 0.00 | -112.00 | 51.020 | 0.015 | 0.014 | 290.3 | 283.7 | 289.2 | 289.2 |
| 9 | 762.00 | 0.00 | -104.00 | 51.229 | 0.092 | 0.050 | 290.9 | 283.7 | 288.8 | 288.7 |
| 10 | 762.00 | 0.00 | -96.00 | 51.264 | 0.294 | 0.174 | 291.2 | 283.7 | 288.5 | 288.3 |
| 11 | 762.00 | 0.00 | -88.00 | 51.129 | 0.590 | 0.346 | 291.4 | 283.7 | 288.5 | 288.0 |
| 12 | 762.00 | 0.00 | -80.00 | 51.115 | 1.060 | 0.626 | 291.4 | 283.7 | 287.4 | 286.5 |
| 13 | 762.00 | 0.00 | -72.00 | 50.698 | 1.635 | 0.930 | 290.9 | 283.7 | 287.3 | 285.9 |
| 14 | 762.00 | 0.00 | -64.00 | 51.068 | 2.392 | 1.446 | 290.4 | 283.7 | 286.7 | 284.7 |
| 15 | 762.00 | 0.00 | -56.00 | 51.163 | 3.563 | 2.102 | 290.3 | 283.7 | 286.5 | 283.6 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 762.00 | 0.00 | -48.00 | 50.996 | 4.871 | 2.860 | 290.1 | 283.7 | 286.2 | 282.2 |
| 17 | 762.00 | 0.00 | -40.00 | 51.298 | 6.500 | 3.861 | 290.1 | 283.7 | 286.0 | 280.8 |
| 18 | 762.00 | 0.00 | -32.00 | 50.702 | 8.503 | 4.866 | 290.1 | 283.7 | 286.0 | 279.3 |
| 19 | 762.00 | 0.00 | -24.00 | 51.020 | 10.415 | 6.103 | 290.1 | 283.6 | 286.1 | 277.9 |
| 20 | 762.00 | 0.00 | -16.00 | 51.291 | 12.468 | 7.266 | 290.1 | 283.6 | 286.1 | 276.4 |
| 21 | 762.00 | 0.00 | -8.00 | 51.119 | 13.799 | 8.038 | 290.2 | 283.7 | 286.2 | 275.6 |
| 22 | 762.00 | 0.00 | 0.00 | 51.180 | 14.263 | 8.366 | 290.4 | 283.6 | 286.6 | 275.6 |
| 23 | 762.00 | 0.00 | 8.00 | 50.808 | 13.491 | 7.948 | 290.4 | 283.6 | 286.4 | 276.0 |
| 24 | 762.00 | 0.00 | 16.00 | 50.911 | 12.418 | 7.150 | 290.5 | 283.7 | 286.1 | 276.5 |
| 25 | 762.00 | 0.00 | 24.00 | 50.879 | 10.667 | 6.219 | 290.4 | 283.7 | 286.2 | 277.8 |
| 26 | 762.00 | 0.00 | 32.00 | 51.225 | 8.610 | 4.931 | 290.4 | 283.7 | 286.0 | 279.2 |
| 27 | 762.00 | 0.00 | 40.00 | 51.077 | 6.769 | 3.959 | 290.4 | 283.6 | 286.1 | 280.7 |
| 28 | 762.00 | 0.00 | 48.00 | 50.896 | 5.012 | 2.951 | 290.3 | 283.6 | 286.2 | 282.1 |
| 29 | 762.00 | 0.00 | 56.00 | 50.511 | 3.830 | 2.195 | 290.3 | 283.5 | 286.3 | 283.2 |
| 30 | 762.00 | 0.00 | 64.00 | 51.251 | 2.771 | 1.542 | 290.3 | 283.6 | 286.8 | 284.5 |
| 31 | 762.00 | 0.00 | 72.00 | 51.043 | 1.746 | 1.074 | 290.5 | 283.6 | 287.5 | 286.0 |
| 32 | 762.00 | 0.00 | 80.00 | 51.085 | 1.163 | 0.729 | 290.7 | 283.7 | 287.8 | 286.8 |
| 33 | 762.00 | 0.00 | 88.00 | 50.771 | 0.773 | 0.463 | 291.0 | 283.7 | 288.4 | 287.8 |
| 34 | 762.00 | 0.00 | 96.00 | 50.757 | 0.452 | 0.262 | 291.0 | 283.7 | 288.9 | 288.5 |
| 35 | 762.00 | 0.00 | 104.00 | 51.263 | 0.276 | 0.152 | 291.1 | 283.7 | 288.9 | 288.7 |
| 36 | 762.00 | 0.00 | 112.00 | 51.170 | 0.153 | 0.102 | 291.3 | 283.8 | 289.6 | 289.5 |
| 37 | 762.00 | 0.00 | 120.00 | 51.009 | 0.071 | 0.057 | 291.3 | 283.8 | 289.7 | 289.6 |
| 38 | 762.00 | 0.00 | 128.00 | 50.752 | 0.050 | 0.033 | 291.3 | 283.8 | 289.8 | 289.8 |
| 39 | 762.00 | 0.00 | 136.00 | 51.159 | 0.045 | 0.034 | 291.3 | 283.7 | 290.1 | 290.1 |
| 40 | 762.00 | 0.00 | 144.00 | 51.235 | 0.038 | 0.027 | 291.4 | 283.7 | 290.5 | 290.5 |
| 41 | 762.00 | 0.00 | 152.00 | 51.262 | 0.042 | 0.028 | 291.3 | 283.8 | 290.4 | 290.4 |
| 42 | 762.00 | 0.00 | 160.00 | 50.766 | 0.046 | 0.029 | 291.1 | 283.8 | 290.3 | 290.3 |

File : TAB058S 9-SEP-88
9-SEP-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied
to pressure data

PIPE TEST

Unexcited, unheated jet, Mj = 0.212
4-INCH PIPE NOZZLE
X/D = 1, DRPCOR

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum temperature
T3 : Probe temperature
A1 :

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 97.833 kPa

Mean gauged plenum pressure : 3.081 kPa
RMS gauged plenum pressure : 0.025 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | A1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 101.60 | 0.00 | -60.00 | 3.081 | 0.140 | 0.201 | 294.8 | 291.0 | 293.2 | 0.0 |
| 3 | 101.60 | 0.00 | -58.50 | 3.081 | 0.185 | 0.268 | 294.8 | 291.0 | 293.0 | 0.0 |
| 4 | 101.60 | 0.00 | -57.00 | 3.081 | 0.267 | 0.342 | 294.7 | 291.0 | 292.9 | 0.0 |
| 5 | 101.60 | 0.00 | -55.50 | 3.081 | 0.368 | 0.453 | 294.8 | 291.1 | 292.6 | 0.0 |
| 6 | 101.60 | 0.00 | -54.00 | 3.081 | 0.512 | 0.604 | 294.7 | 291.0 | 292.5 | 0.0 |
| 7 | 101.60 | 0.00 | -52.50 | 3.081 | 0.701 | 0.785 | 294.7 | 291.0 | 292.3 | 0.0 |
| 8 | 101.60 | 0.00 | -51.00 | 3.081 | 0.900 | 0.998 | 294.7 | 291.1 | 292.2 | 0.0 |
| 9 | 101.60 | 0.00 | -49.50 | 3.081 | 1.131 | 1.232 | 294.6 | 291.1 | 292.2 | 0.0 |
| 10 | 101.60 | 0.00 | -48.00 | 3.081 | 1.391 | 1.490 | 294.6 | 291.1 | 292.1 | 0.0 |
| 11 | 101.60 | 0.00 | -46.50 | 3.081 | 1.679 | 1.745 | 294.5 | 291.1 | 292.0 | 0.0 |
| 12 | 101.60 | 0.00 | -45.00 | 3.081 | 1.932 | 2.036 | 294.5 | 291.1 | 291.8 | 0.0 |
| 13 | 101.60 | 0.00 | -43.50 | 3.081 | 2.241 | 2.291 | 294.5 | 291.1 | 291.7 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 101.60 | 0.00 | -42.00 | 3.081 | 2.441 | 2.510 | 294.5 | 291.1 | 291.6 | 0.0 |
| 15 | 101.60 | 0.00 | -40.50 | 3.081 | 2.632 | 2.696 | 294.5 | 291.1 | 291.5 | 0.0 |
| 16 | 101.60 | 0.00 | -39.00 | 3.081 | 2.760 | 2.809 | 294.5 | 291.1 | 291.4 | 0.0 |
| 17 | 101.60 | 0.00 | -37.50 | 3.081 | 2.852 | 2.910 | 294.6 | 291.1 | 291.3 | 0.0 |
| 18 | 101.60 | 0.00 | -36.00 | 3.081 | 2.892 | 2.995 | 294.9 | 291.1 | 291.2 | 0.0 |
| 19 | 101.60 | 0.00 | -34.50 | 3.081 | 2.976 | 3.021 | 295.3 | 291.1 | 291.3 | 0.0 |
| 20 | 101.60 | 0.00 | -33.00 | 3.081 | 3.047 | 3.048 | 295.5 | 291.1 | 291.3 | 0.0 |
| 21 | 101.60 | 0.00 | -31.50 | 3.081 | 3.033 | 3.076 | 295.4 | 291.1 | 291.2 | 0.0 |
| 22 | 101.60 | 0.00 | -30.00 | 3.081 | 3.058 | 3.090 | 295.2 | 291.1 | 291.2 | 0.0 |
| 23 | 101.60 | 0.00 | -25.00 | 3.081 | 3.119 | 3.134 | 295.5 | 291.1 | 291.1 | 0.0 |
| 24 | 101.60 | 0.00 | -20.00 | 3.081 | 3.132 | 3.142 | 295.5 | 291.1 | 291.0 | 0.0 |
| 25 | 101.60 | 0.00 | -15.00 | 3.081 | 3.134 | 3.142 | 295.5 | 291.1 | 291.0 | 0.0 |
| 26 | 101.60 | 0.00 | -10.00 | 3.081 | 3.133 | 3.138 | 295.2 | 291.1 | 291.0 | 0.0 |
| 27 | 101.60 | 0.00 | -5.00 | 3.081 | 3.143 | 3.148 | 294.7 | 291.1 | 290.9 | 0.0 |
| 28 | 101.60 | 0.00 | 0.00 | 3.081 | 3.145 | 3.144 | 294.7 | 291.1 | 290.9 | 0.0 |
| 29 | 101.60 | 0.00 | 5.00 | 3.081 | 3.134 | 3.135 | 294.5 | 291.1 | 290.9 | 0.0 |
| 30 | 101.60 | 0.00 | 10.00 | 3.081 | 3.124 | 3.121 | 294.5 | 291.1 | 290.9 | 0.0 |
| 31 | 101.60 | 0.00 | 15.00 | 3.081 | 3.115 | 3.124 | 294.4 | 291.1 | 290.9 | 0.0 |
| 32 | 101.60 | 0.00 | 20.00 | 3.081 | 3.105 | 3.104 | 294.3 | 291.1 | 291.0 | 0.0 |
| 33 | 101.60 | 0.00 | 25.00 | 3.081 | 3.058 | 3.072 | 294.2 | 291.1 | 291.0 | 0.0 |
| 34 | 101.60 | 0.00 | 30.00 | 3.081 | 3.024 | 3.052 | 294.2 | 291.1 | 291.0 | 0.0 |
| 35 | 101.60 | 0.00 | 31.50 | 3.081 | 3.006 | 3.061 | 294.2 | 291.1 | 291.0 | 0.0 |
| 36 | 101.60 | 0.00 | 33.00 | 3.081 | 2.970 | 3.008 | 294.2 | 291.1 | 291.0 | 0.0 |
| 37 | 101.60 | 0.00 | 34.50 | 3.081 | 2.967 | 3.032 | 294.2 | 291.0 | 291.0 | 0.0 |
| 38 | 101.60 | 0.00 | 36.00 | 3.081 | 2.939 | 3.016 | 294.1 | 291.1 | 290.9 | 0.0 |
| 39 | 101.60 | 0.00 | 37.50 | 3.081 | 2.902 | 2.954 | 294.1 | 291.0 | 290.9 | 0.0 |
| 40 | 101.60 | 0.00 | 39.00 | 3.081 | 2.896 | 2.981 | 294.2 | 291.1 | 291.0 | 0.0 |
| 41 | 101.60 | 0.00 | 40.50 | 3.081 | 2.786 | 2.898 | 294.2 | 291.1 | 291.0 | 0.0 |
| 42 | 101.60 | 0.00 | 42.00 | 3.081 | 2.712 | 2.772 | 294.2 | 291.1 | 291.1 | 0.0 |
| 43 | 101.60 | 0.00 | 43.50 | 3.081 | 2.568 | 2.719 | 294.2 | 291.1 | 291.1 | 0.0 |
| 44 | 101.60 | 0.00 | 45.00 | 3.081 | 2.490 | 2.589 | 294.1 | 291.1 | 291.3 | 0.0 |
| 45 | 101.60 | 0.00 | 46.50 | 3.081 | 2.264 | 2.332 | 294.4 | 291.1 | 291.4 | 0.0 |
| 46 | 101.60 | 0.00 | 48.00 | 3.081 | 2.046 | 2.108 | 294.8 | 291.0 | 291.5 | 0.0 |
| 47 | 101.60 | 0.00 | 49.50 | 3.081 | 1.770 | 1.902 | 295.0 | 291.1 | 291.7 | 0.0 |
| 48 | 101.60 | 0.00 | 51.00 | 3.081 | 1.513 | 1.623 | 295.2 | 291.1 | 291.7 | 0.0 |
| 49 | 101.60 | 0.00 | 52.50 | 3.081 | 1.255 | 1.343 | 295.4 | 291.0 | 291.7 | 0.0 |
| 50 | 101.60 | 0.00 | 54.00 | 3.081 | 1.009 | 1.084 | 295.4 | 291.1 | 291.7 | 0.0 |
| 51 | 101.60 | 0.00 | 55.50 | 3.081 | 0.775 | 0.869 | 295.4 | 291.0 | 292.0 | 0.0 |
| 52 | 101.60 | 0.00 | 57.00 | 3.081 | 0.591 | 0.665 | 295.4 | 291.1 | 292.1 | 0.0 |
| 53 | 101.60 | 0.00 | 58.50 | 3.081 | 0.429 | 0.484 | 295.3 | 291.1 | 292.1 | 0.0 |
| 54 | 101.60 | 0.00 | 60.00 | 3.081 | 0.297 | 0.337 | 295.1 | 291.1 | 292.0 | 0.0 |

File : TAB506T 3-OCT-88
3-OCT-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied
to pressure data

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 474 K
CIRCULAR NOZZLE
X/D = 3, DRPCOR

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 97.359 kPa

Mean gauged plenum pressure : 50.815 kPa
RMS gauged plenum pressure : 0.190 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 152.40 | -45.00 | 0.00 | 50.815 | 0.012 | 0.015 | 296.4 | 473.5 | 308.3 | 308.3 |
| 3 | 152.40 | -43.00 | 0.00 | 50.815 | 0.099 | 0.078 | 296.5 | 473.0 | 310.2 | 310.1 |
| 4 | 152.40 | -41.00 | 0.00 | 50.815 | 0.350 | 0.214 | 296.5 | 473.2 | 315.9 | 315.6 |
| 5 | 152.40 | -39.00 | 0.00 | 50.815 | 0.898 | 0.547 | 296.5 | 473.6 | 324.7 | 323.9 |
| 6 | 152.40 | -37.00 | 0.00 | 50.815 | 1.910 | 1.107 | 296.4 | 474.0 | 333.6 | 331.8 |
| 7 | 152.40 | -35.00 | 0.00 | 50.815 | 3.435 | 1.964 | 296.5 | 474.2 | 344.3 | 340.9 |
| 8 | 152.40 | -33.00 | 0.00 | 50.815 | 5.663 | 3.305 | 296.4 | 473.3 | 355.8 | 350.1 |
| 9 | 152.40 | -31.00 | 0.00 | 50.815 | 8.284 | 4.802 | 296.4 | 473.2 | 366.6 | 358.2 |
| 10 | 152.40 | -29.00 | 0.00 | 50.815 | 12.175 | 7.064 | 296.5 | 473.4 | 381.0 | 368.5 |
| 11 | 152.40 | -27.00 | 0.00 | 50.815 | 16.597 | 9.636 | 296.6 | 473.6 | 393.1 | 375.9 |
| 12 | 152.40 | -25.00 | 0.00 | 50.815 | 22.301 | 12.961 | 296.6 | 473.9 | 406.8 | 383.7 |
| 13 | 152.40 | -23.00 | 0.00 | 50.815 | 29.850 | 17.301 | 297.4 | 474.6 | 422.6 | 391.7 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 152.40 | -21.00 | 0.00 | 50.815 | 35.653 | 20.710 | 297.2 | 473.6 | 432.4 | 395.8 |
| 15 | 152.40 | -19.00 | 0.00 | 50.815 | 40.610 | 23.538 | 296.9 | 473.2 | 439.3 | 398.0 |
| 16 | 152.40 | -17.00 | 0.00 | 50.815 | 44.005 | 25.515 | 297.1 | 472.0 | 442.0 | 397.7 |
| 17 | 152.40 | -15.00 | 0.00 | 50.815 | 46.439 | 26.970 | 297.5 | 470.7 | 446.4 | 399.7 |
| 18 | 152.40 | -12.00 | 0.00 | 50.815 | 49.207 | 28.516 | 298.0 | 470.0 | 455.5 | 405.7 |
| 19 | 152.40 | -9.00 | 0.00 | 50.815 | 50.288 | 29.169 | 298.2 | 470.5 | 462.2 | 410.9 |
| 20 | 152.40 | -6.00 | 0.00 | 50.815 | 50.686 | 29.414 | 298.2 | 470.4 | 465.6 | 413.6 |
| 21 | 152.40 | -3.00 | 0.00 | 50.815 | 50.738 | 29.430 | 298.0 | 470.2 | 466.4 | 414.3 |
| 22 | 152.40 | 0.00 | 0.00 | 50.815 | 50.726 | 29.435 | 298.0 | 470.3 | 467.6 | 415.3 |
| 23 | 152.40 | 3.00 | 0.00 | 50.815 | 50.726 | 29.441 | 297.8 | 471.5 | 467.4 | 415.2 |
| 24 | 152.40 | 6.00 | 0.00 | 50.815 | 50.655 | 29.362 | 296.9 | 470.6 | 466.4 | 414.3 |
| 25 | 152.40 | 9.00 | 0.00 | 50.815 | 50.442 | 29.234 | 296.4 | 472.5 | 465.2 | 413.4 |
| 26 | 152.40 | 11.00 | 0.00 | 50.815 | 49.707 | 28.895 | 296.3 | 473.0 | 460.0 | 409.3 |
| 27 | 152.40 | 13.00 | 0.00 | 50.815 | 48.915 | 28.430 | 296.2 | 474.0 | 456.1 | 406.5 |
| 28 | 152.40 | 15.00 | 0.00 | 50.815 | 47.696 | 27.691 | 296.1 | 473.4 | 451.2 | 403.0 |
| 29 | 152.40 | 17.00 | 0.00 | 50.815 | 46.019 | 26.571 | 296.2 | 473.1 | 444.2 | 398.1 |
| 30 | 152.40 | 19.00 | 0.00 | 50.815 | 43.149 | 25.073 | 296.0 | 472.7 | 438.2 | 394.9 |
| 31 | 152.40 | 21.00 | 0.00 | 50.815 | 39.575 | 22.967 | 296.0 | 473.9 | 431.3 | 391.5 |
| 32 | 152.40 | 23.00 | 0.00 | 50.815 | 34.709 | 20.054 | 295.9 | 475.3 | 428.6 | 393.1 |
| 33 | 152.40 | 25.00 | 0.00 | 50.815 | 28.681 | 16.764 | 295.8 | 475.1 | 420.2 | 390.5 |
| 34 | 152.40 | 27.00 | 0.00 | 50.815 | 22.235 | 12.876 | 295.9 | 474.9 | 405.6 | 382.6 |
| 35 | 152.40 | 29.00 | 0.00 | 50.815 | 17.110 | 9.947 | 295.8 | 474.5 | 394.9 | 377.2 |
| 36 | 152.40 | 31.00 | 0.00 | 50.815 | 12.330 | 7.217 | 295.8 | 473.7 | 381.9 | 369.2 |
| 37 | 152.40 | 33.00 | 0.00 | 50.815 | 8.470 | 4.958 | 295.8 | 473.2 | 367.7 | 359.1 |
| 38 | 152.40 | 35.00 | 0.00 | 50.815 | 5.931 | 3.486 | 295.8 | 472.7 | 358.0 | 352.0 |
| 39 | 152.40 | 37.00 | 0.00 | 50.815 | 3.930 | 2.320 | 295.7 | 472.8 | 346.2 | 342.3 |
| 40 | 152.40 | 39.00 | 0.00 | 50.815 | 2.540 | 1.448 | 295.8 | 472.1 | 338.0 | 335.5 |

File : TAB505S 3-OCT-88
3-OCT-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied to pressure data

VERTICAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 474 K
CIRCULAR NOZZLE
X/D = 3, DRPCOR

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum temperature
T3 : Probe temperature
A1 :

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 97.460 kPa

Mean gauged plenum pressure : 50.863 kPa
RMS gauged plenum pressure : 0.175 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | A1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 152.40 | 0.00 | -40.00 | 50.863 | 1.887 | 1.099 | 295.1 | 475.8 | 331.0 | 0.0 |
| 3 | 152.40 | 0.00 | -39.00 | 50.863 | 2.326 | 1.339 | 295.1 | 475.5 | 335.0 | 0.0 |
| 4 | 152.40 | 0.00 | -38.00 | 50.863 | 3.068 | 1.803 | 295.2 | 475.0 | 340.3 | 0.0 |
| 5 | 152.40 | 0.00 | -37.00 | 50.863 | 3.790 | 2.264 | 295.2 | 475.0 | 344.6 | 0.0 |
| 6 | 152.40 | 0.00 | -36.00 | 50.863 | 4.966 | 2.854 | 295.2 | 475.2 | 350.8 | 0.0 |
| 7 | 152.40 | 0.00 | -35.00 | 50.863 | 6.161 | 3.555 | 295.1 | 475.0 | 357.0 | 0.0 |
| 8 | 152.40 | 0.00 | -34.00 | 50.863 | 7.452 | 4.331 | 295.0 | 475.3 | 362.4 | 0.0 |
| 9 | 152.40 | 0.00 | -33.00 | 50.863 | 9.248 | 5.270 | 295.0 | 476.1 | 369.7 | 0.0 |
| 10 | 152.40 | 0.00 | -32.00 | 50.863 | 11.094 | 6.406 | 295.2 | 477.2 | 378.0 | 0.0 |
| 11 | 152.40 | 0.00 | -31.00 | 50.863 | 12.998 | 7.608 | 295.2 | 477.6 | 383.6 | 0.0 |
| 12 | 152.40 | 0.00 | -30.00 | 50.863 | 15.473 | 8.880 | 295.1 | 477.7 | 392.4 | 0.0 |
| 13 | 152.40 | 0.00 | -29.00 | 50.863 | 18.052 | 10.560 | 295.7 | 477.5 | 398.1 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 152.40 | 0.00 | -28.00 | 50.863 | 21.103 | 12.245 | 296.2 | 475.3 | 404.8 | 0.0 |
| 15 | 152.40 | 0.00 | -27.00 | 50.863 | 24.106 | 14.057 | 296.5 | 474.9 | 411.8 | 0.0 |
| 16 | 152.40 | 0.00 | -26.00 | 50.863 | 27.318 | 15.925 | 296.6 | 475.3 | 419.3 | 0.0 |
| 17 | 152.40 | 0.00 | -25.00 | 50.863 | 30.883 | 17.884 | 296.8 | 475.7 | 426.8 | 0.0 |
| 18 | 152.40 | 0.00 | -24.00 | 50.863 | 34.426 | 19.957 | 296.5 | 475.1 | 432.8 | 0.0 |
| 19 | 152.40 | 0.00 | -23.00 | 50.863 | 37.981 | 22.192 | 296.7 | 475.0 | 440.3 | 0.0 |
| 20 | 152.40 | 0.00 | -22.00 | 50.863 | 40.953 | 23.795 | 296.6 | 475.1 | 446.4 | 0.0 |
| 21 | 152.40 | 0.00 | -21.00 | 50.863 | 43.791 | 25.368 | 296.8 | 474.8 | 452.5 | 0.0 |
| 22 | 152.40 | 0.00 | -20.00 | 50.863 | 45.749 | 26.613 | 296.8 | 474.9 | 455.8 | 0.0 |
| 23 | 152.40 | 0.00 | -19.00 | 50.863 | 47.295 | 27.396 | 296.1 | 474.9 | 460.4 | 0.0 |
| 24 | 152.40 | 0.00 | -18.00 | 50.863 | 48.225 | 27.986 | 295.7 | 474.8 | 462.1 | 0.0 |
| 25 | 152.40 | 0.00 | -17.00 | 50.863 | 48.983 | 28.401 | 295.4 | 474.5 | 463.6 | 0.0 |
| 26 | 152.40 | 0.00 | -16.00 | 50.863 | 49.400 | 28.691 | 295.2 | 474.7 | 463.3 | 0.0 |
| 27 | 152.40 | 0.00 | -15.00 | 50.863 | 49.828 | 28.944 | 295.3 | 474.5 | 465.3 | 0.0 |
| 28 | 152.40 | 0.00 | -12.00 | 50.863 | 50.637 | 29.389 | 295.4 | 473.8 | 468.5 | 0.0 |
| 29 | 152.40 | 0.00 | -9.00 | 50.863 | 50.897 | 29.523 | 295.4 | 473.7 | 470.3 | 0.0 |
| 30 | 152.40 | 0.00 | -6.00 | 50.863 | 50.915 | 29.530 | 295.5 | 473.5 | 471.5 | 0.0 |
| 31 | 152.40 | 0.00 | -3.00 | 50.863 | 50.923 | 29.534 | 295.4 | 473.6 | 471.5 | 0.0 |
| 32 | 152.40 | 0.00 | 0.00 | 50.863 | 50.795 | 29.456 | 295.5 | 473.9 | 470.1 | 0.0 |
| 33 | 152.40 | 0.00 | 3.00 | 50.863 | 50.387 | 29.211 | 295.5 | 473.5 | 465.0 | 0.0 |
| 34 | 152.40 | 0.00 | 6.00 | 50.863 | 49.122 | 28.505 | 295.6 | 473.5 | 456.3 | 0.0 |
| 35 | 152.40 | 0.00 | 9.00 | 50.863 | 46.415 | 26.921 | 295.6 | 473.5 | 440.5 | 0.0 |
| 36 | 152.40 | 0.00 | 10.00 | 50.863 | 45.228 | 26.289 | 295.6 | 473.1 | 438.4 | 0.0 |
| 37 | 152.40 | 0.00 | 11.00 | 50.863 | 44.073 | 25.502 | 295.6 | 472.7 | 429.0 | 0.0 |
| 38 | 152.40 | 0.00 | 12.00 | 50.863 | 42.942 | 24.621 | 295.5 | 473.0 | 428.0 | 0.0 |
| 39 | 152.40 | 0.00 | 13.00 | 50.863 | 40.741 | 23.651 | 295.6 | 473.0 | 426.9 | 0.0 |
| 40 | 152.40 | 0.00 | 14.00 | 50.863 | 39.579 | 22.633 | 295.6 | 472.9 | 418.7 | 0.0 |
| 41 | 152.40 | 0.00 | 15.00 | 50.863 | 37.529 | 21.695 | 296.1 | 473.2 | 411.4 | 0.0 |
| 42 | 152.40 | 0.00 | 16.00 | 50.863 | 34.997 | 20.631 | 296.7 | 474.0 | 410.5 | 0.0 |
| 43 | 152.40 | 0.00 | 17.00 | 50.863 | 32.548 | 18.905 | 296.7 | 474.3 | 409.0 | 0.0 |
| 44 | 152.40 | 0.00 | 18.00 | 50.863 | 30.390 | 17.365 | 296.9 | 474.5 | 398.1 | 0.0 |
| 45 | 152.40 | 0.00 | 19.00 | 50.863 | 28.105 | 16.452 | 297.1 | 475.3 | 396.9 | 0.0 |
| 46 | 152.40 | 0.00 | 20.00 | 50.863 | 25.712 | 14.572 | 297.2 | 475.5 | 391.2 | 0.0 |
| 47 | 152.40 | 0.00 | 21.00 | 50.863 | 21.948 | 12.826 | 297.5 | 475.5 | 388.5 | 0.0 |
| 48 | 152.40 | 0.00 | 22.00 | 50.863 | 20.397 | 11.711 | 297.4 | 475.5 | 387.6 | 0.0 |
| 49 | 152.40 | 0.00 | 23.00 | 50.863 | 18.306 | 10.598 | 297.4 | 475.6 | 385.0 | 0.0 |
| 50 | 152.40 | 0.00 | 24.00 | 50.863 | 15.702 | 9.046 | 297.4 | 474.9 | 382.5 | 0.0 |
| 51 | 152.40 | 0.00 | 25.00 | 50.863 | 12.877 | 7.667 | 296.8 | 474.8 | 374.9 | 0.0 |
| 52 | 152.40 | 0.00 | 26.00 | 50.863 | 10.842 | 6.285 | 296.2 | 475.3 | 373.3 | 0.0 |
| 53 | 152.40 | 0.00 | 27.00 | 50.863 | 9.081 | 5.305 | 295.9 | 475.2 | 366.8 | 0.0 |
| 54 | 152.40 | 0.00 | 28.00 | 50.863 | 8.039 | 4.635 | 295.6 | 475.0 | 366.8 | 0.0 |
| 55 | 152.40 | 0.00 | 29.00 | 50.863 | 6.068 | 3.609 | 295.5 | 474.8 | 362.7 | 0.0 |
| 56 | 152.40 | 0.00 | 30.00 | 50.863 | 4.991 | 2.849 | 295.5 | 475.5 | 360.2 | 0.0 |
| 57 | 152.40 | 0.00 | 31.00 | 50.863 | 3.883 | 2.452 | 295.4 | 474.5 | 356.9 | 0.0 |
| 58 | 152.40 | 0.00 | 32.00 | 50.863 | 3.015 | 1.686 | 295.4 | 474.0 | 354.1 | 0.0 |
| 59 | 152.40 | 0.00 | 33.00 | 50.863 | 2.165 | 1.279 | 295.4 | 474.0 | 347.6 | 0.0 |
| 60 | 152.40 | 0.00 | 34.00 | 50.863 | 1.873 | 1.108 | 295.4 | 474.2 | 342.1 | 0.0 |

C-6

File : TAB504S 26-SEP-88
26-SEP-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied to pressure data

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 477 K

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum temperature
T3 : Probe temperature
A1 :

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.165 kPa

Mean gauged plenum pressure : 51.287 kPa
RMS gauged plenum pressure : 0.266 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | A1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 152.40 | -45.00 | 0.00 | 51.287 | 0.016 | 0.019 | 298.6 | 477.3 | 10.0 | 0.0 |
| 3 | 152.40 | -44.00 | 0.00 | 51.287 | 0.061 | 0.045 | 298.5 | 477.7 | 10.0 | 0.0 |
| 4 | 152.40 | -43.00 | 0.00 | 51.287 | 0.085 | 0.065 | 298.4 | 476.7 | 10.0 | 0.0 |
| 5 | 152.40 | -42.00 | 0.00 | 51.287 | 0.314 | 0.210 | 298.4 | 475.9 | 10.0 | 0.0 |
| 6 | 152.40 | -41.00 | 0.00 | 51.287 | 0.332 | 0.209 | 298.4 | 475.9 | 10.0 | 0.0 |
| 7 | 152.40 | -40.00 | 0.00 | 51.287 | 0.765 | 0.461 | 298.8 | 476.5 | 10.0 | 0.0 |
| 8 | 152.40 | -39.00 | 0.00 | 51.287 | 0.888 | 0.540 | 298.9 | 478.2 | 10.0 | 0.0 |
| 9 | 152.40 | -38.00 | 0.00 | 51.287 | 1.712 | 1.012 | 299.0 | 477.8 | 10.0 | 0.0 |
| 10 | 152.40 | -37.00 | 0.00 | 51.287 | 1.877 | 1.123 | 299.2 | 475.7 | 10.0 | 0.0 |
| 11 | 152.40 | -36.00 | 0.00 | 51.287 | 2.965 | 1.763 | 299.2 | 476.3 | 10.0 | 0.0 |
| 12 | 152.40 | -35.00 | 0.00 | 51.287 | 3.011 | 1.806 | 299.3 | 476.6 | 10.0 | 0.0 |
| 13 | 152.40 | -34.00 | 0.00 | 51.287 | 4.846 | 2.827 | 299.3 | 478.3 | 10.0 | 0.0 |
| 14 | 152.40 | -33.00 | 0.00 | 51.287 | 5.090 | 2.983 | 299.3 | 478.4 | 10.0 | 0.0 |
| 15 | 152.40 | -32.00 | 0.00 | 51.287 | 7.324 | 4.397 | 299.3 | 478.9 | 10.1 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 152.40 | -31.00 | 0.00 | 51.287 | 7.382 | 4.306 | 299.3 | 476.5 | 10.1 | 0.0 |
| 17 | 152.40 | -30.00 | 0.00 | 51.287 | 10.598 | 6.212 | 299.4 | 476.6 | 10.1 | 0.0 |
| 18 | 152.40 | -29.00 | 0.00 | 51.287 | 11.074 | 6.453 | 299.3 | 478.5 | 10.1 | 0.0 |
| 19 | 152.40 | -28.00 | 0.00 | 51.287 | 15.344 | 8.826 | 299.4 | 477.3 | 10.1 | 0.0 |
| 20 | 152.40 | -27.00 | 0.00 | 51.287 | 15.885 | 9.179 | 299.4 | 477.2 | 10.1 | 0.0 |
| 21 | 152.40 | -26.00 | 0.00 | 51.287 | 20.759 | 11.990 | 299.4 | 477.7 | 10.1 | 0.0 |
| 22 | 152.40 | -25.00 | 0.00 | 51.287 | 20.694 | 12.046 | 299.4 | 477.5 | 10.1 | 0.0 |
| 23 | 152.40 | -24.00 | 0.00 | 51.287 | 27.118 | 15.724 | 299.5 | 477.3 | 10.2 | 0.0 |
| 24 | 152.40 | -23.00 | 0.00 | 51.287 | 27.214 | 15.742 | 299.4 | 477.0 | 10.2 | 0.0 |
| 25 | 152.40 | -22.00 | 0.00 | 51.287 | 33.544 | 19.442 | 299.4 | 477.2 | 10.2 | 0.0 |
| 26 | 152.40 | -21.00 | 0.00 | 51.287 | 33.797 | 19.679 | 299.5 | 477.5 | 10.2 | 0.0 |
| 27 | 152.40 | -20.00 | 0.00 | 51.287 | 39.680 | 23.026 | 299.6 | 477.7 | 10.2 | 0.0 |
| 28 | 152.40 | -19.00 | 0.00 | 51.287 | 40.126 | 23.347 | 299.6 | 476.8 | 10.2 | 0.0 |
| 29 | 152.40 | -18.00 | 0.00 | 51.287 | 43.816 | 25.345 | 299.3 | 477.7 | 10.2 | 0.0 |
| 30 | 152.40 | -17.00 | 0.00 | 51.287 | 44.227 | 25.657 | 298.9 | 477.4 | 10.2 | 0.0 |
| 31 | 152.40 | -16.00 | 0.00 | 51.287 | 46.467 | 26.962 | 298.8 | 476.9 | 10.2 | 0.0 |
| 32 | 152.40 | -15.00 | 0.00 | 51.287 | 46.529 | 26.966 | 298.7 | 478.4 | 10.2 | 0.0 |
| 33 | 152.40 | -12.00 | 0.00 | 51.287 | 49.727 | 28.805 | 298.4 | 477.6 | 10.3 | 0.0 |
| 34 | 152.40 | -9.00 | 0.00 | 51.287 | 50.784 | 29.431 | 298.2 | 477.1 | 10.3 | 0.0 |
| 35 | 152.40 | -6.00 | 0.00 | 51.287 | 51.119 | 29.650 | 298.0 | 477.6 | 10.3 | 0.0 |
| 36 | 152.40 | -3.00 | 0.00 | 51.287 | 51.168 | 29.689 | 297.9 | 473.8 | 10.3 | 0.0 |
| 37 | 152.40 | 0.00 | 0.00 | 51.287 | 51.183 | 29.739 | 297.9 | 478.9 | 10.3 | 0.0 |
| 38 | 152.40 | 3.00 | 0.00 | 51.287 | 51.180 | 29.693 | 298.0 | 478.1 | 10.3 | 0.0 |
| 39 | 152.40 | 6.00 | 0.00 | 51.287 | 51.249 | 29.719 | 298.0 | 479.4 | 10.3 | 0.0 |
| 40 | 152.40 | 9.00 | 0.00 | 51.287 | 50.941 | 29.539 | 298.1 | 475.5 | 10.3 | 0.0 |
| 41 | 152.40 | 10.00 | 0.00 | 51.287 | 50.689 | 29.394 | 297.9 | 479.0 | 10.3 | 0.0 |
| 42 | 152.40 | 11.00 | 0.00 | 51.287 | 50.474 | 29.263 | 298.4 | 476.8 | 10.3 | 0.0 |
| 43 | 152.40 | 12.00 | 0.00 | 51.287 | 50.381 | 29.216 | 298.8 | 478.6 | 10.3 | 0.0 |
| 44 | 152.40 | 13.00 | 0.00 | 51.287 | 49.635 | 28.836 | 298.9 | 477.7 | 10.3 | 0.0 |
| 45 | 152.40 | 14.00 | 0.00 | 51.287 | 49.464 | 28.667 | 299.0 | 478.2 | 10.3 | 0.0 |
| 46 | 152.40 | 15.00 | 0.00 | 51.287 | 48.481 | 28.091 | 299.1 | 477.9 | 10.3 | 0.0 |
| 47 | 152.40 | 16.00 | 0.00 | 51.287 | 48.093 | 28.052 | 299.0 | 476.6 | 10.3 | 0.0 |
| 48 | 152.40 | 17.00 | 0.00 | 51.287 | 46.297 | 26.873 | 299.0 | 478.8 | 10.2 | 0.0 |
| 49 | 152.40 | 18.00 | 0.00 | 51.287 | 46.075 | 26.813 | 299.1 | 480.5 | 10.2 | 0.0 |
| 50 | 152.40 | 19.00 | 0.00 | 51.287 | 43.710 | 25.354 | 299.0 | 476.9 | 10.2 | 0.0 |
| 51 | 152.40 | 20.00 | 0.00 | 51.287 | 43.342 | 25.119 | 298.9 | 479.0 | 10.2 | 0.0 |
| 52 | 152.40 | 21.00 | 0.00 | 51.287 | 39.940 | 23.169 | 298.8 | 476.5 | 10.2 | 0.0 |
| 53 | 152.40 | 22.00 | 0.00 | 51.287 | 39.552 | 22.897 | 298.7 | 477.5 | 10.2 | 0.0 |
| 54 | 152.40 | 23.00 | 0.00 | 51.287 | 34.203 | 19.881 | 298.7 | 477.6 | 10.2 | 0.0 |
| 55 | 152.40 | 24.00 | 0.00 | 51.287 | 33.739 | 19.744 | 298.6 | 477.5 | 10.2 | 0.0 |
| 56 | 152.40 | 25.00 | 0.00 | 51.287 | 27.810 | 16.130 | 298.6 | 477.6 | 10.2 | 0.0 |
| 57 | 152.40 | 26.00 | 0.00 | 51.287 | 27.699 | 16.096 | 298.7 | 477.4 | 10.2 | 0.0 |
| 58 | 152.40 | 27.00 | 0.00 | 51.287 | 21.429 | 12.552 | 298.7 | 477.3 | 10.2 | 0.0 |
| 59 | 152.40 | 28.00 | 0.00 | 51.287 | 21.817 | 12.662 | 298.8 | 478.3 | 10.2 | 0.0 |
| 60 | 152.40 | 29.00 | 0.00 | 51.287 | 16.895 | 9.646 | 298.9 | 476.9 | 10.1 | 0.0 |
| 61 | 152.40 | 30.00 | 0.00 | 51.287 | 16.456 | 9.426 | 299.0 | 479.0 | 10.1 | 0.0 |
| 62 | 152.40 | 31.00 | 0.00 | 51.287 | 12.404 | 7.165 | 299.1 | 477.2 | 10.1 | 0.0 |
| 63 | 152.40 | 32.00 | 0.00 | 51.287 | 11.712 | 6.735 | 299.1 | 478.1 | 10.1 | 0.0 |
| 64 | 152.40 | 33.00 | 0.00 | 51.287 | 8.297 | 4.903 | 298.8 | 476.2 | 10.1 | 0.0 |
| 65 | 152.40 | 34.00 | 0.00 | 51.287 | 8.179 | 4.790 | 298.6 | 477.8 | 10.1 | 0.0 |
| 66 | 152.40 | 35.00 | 0.00 | 51.287 | 6.033 | 3.472 | 298.6 | 476.5 | 10.1 | 0.0 |
| 67 | 152.40 | 36.00 | 0.00 | 51.287 | 5.851 | 3.460 | 298.3 | 476.9 | 10.1 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 68 | 152.40 | 37.00 | 0.00 | 51.287 | 3.736 | 2.257 | 298.1 | 476.7 | 10.0 | 0.0 |
| 69 | 152.40 | 38.00 | 0.00 | 51.287 | 3.766 | 2.188 | 298.0 | 476.3 | 10.0 | 0.0 |
| 70 | 152.40 | 39.00 | 0.00 | 51.287 | 2.291 | 1.320 | 298.1 | 476.6 | 10.0 | 0.0 |
| 71 | 152.40 | -5.00 | 0.00 | 51.287 | 51.144 | 29.672 | 298.2 | 477.2 | 10.3 | 0.0 |

File : TAB510S 6-OCT-88
6-OCT-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied to pressure data

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.58
BOUNDARY LAYER PROBE
X/D = 3, DRPTAB

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum temperature
T3 : Probe temperature
A1 :

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.781 kPa

Mean gauged plenum pressure : 25.311 kPa
RMS gauged plenum pressure : 0.158 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | A1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 152.40 | -45.00 | 0.00 | 25.311 | 0.076 | 0.032 | 294.3 | 291.1 | 0.0 | 0.0 |
| 3 | 152.40 | -43.00 | 0.00 | 25.311 | 0.053 | 0.031 | 293.9 | 291.0 | 0.0 | 0.0 |
| 4 | 152.40 | -41.00 | 0.00 | 25.311 | 0.148 | 0.038 | 293.5 | 291.0 | 0.0 | 0.0 |
| 5 | 152.40 | -39.00 | 0.00 | 25.311 | 0.316 | 0.036 | 293.2 | 290.9 | 0.0 | 0.0 |
| 6 | 152.40 | -37.00 | 0.00 | 25.311 | 0.688 | 0.031 | 293.0 | 290.8 | 0.0 | 0.0 |
| 7 | 152.40 | -35.00 | 0.00 | 25.311 | 1.374 | 0.034 | 293.1 | 290.8 | 0.0 | 0.0 |
| 8 | 152.40 | -33.00 | 0.00 | 25.311 | 2.139 | 0.031 | 293.0 | 290.7 | 0.0 | 0.0 |
| 9 | 152.40 | -31.00 | 0.00 | 25.311 | 3.398 | 0.032 | 293.2 | 290.7 | 0.0 | 0.0 |
| 10 | 152.40 | -29.00 | 0.00 | 25.311 | 5.283 | 0.028 | 293.0 | 290.6 | 0.0 | 0.0 |
| 11 | 152.40 | -27.00 | 0.00 | 25.311 | 7.317 | 0.024 | 293.0 | 290.6 | 0.0 | 0.0 |
| 12 | 152.40 | -25.00 | 0.00 | 25.311 | 10.270 | 0.024 | 293.0 | 290.7 | 0.0 | 0.0 |
| 13 | 152.40 | -23.00 | 0.00 | 25.311 | 13.375 | 0.030 | 293.0 | 290.7 | 0.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 152.40 | -21.00 | 0.00 | 25.311 | 16.775 | 0.028 | 293.0 | 290.7 | 0.0 | 0.0 |
| 15 | 152.40 | -19.00 | 0.00 | 25.311 | 19.996 | 0.026 | 293.1 | 290.7 | 0.0 | 0.0 |
| 16 | 152.40 | -17.00 | 0.00 | 25.311 | 22.560 | 0.026 | 293.0 | 290.7 | 0.0 | 0.0 |
| 17 | 152.40 | -15.00 | 0.00 | 25.311 | 24.168 | 0.022 | 293.0 | 290.7 | 0.0 | 0.0 |
| 18 | 152.40 | -13.00 | 0.00 | 25.311 | 24.751 | 0.022 | 293.1 | 290.7 | 0.0 | 0.0 |
| 19 | 152.40 | -11.00 | 0.00 | 25.311 | 25.008 | 0.018 | 293.2 | 290.7 | 0.0 | 0.0 |
| 20 | 152.40 | -9.00 | 0.00 | 25.311 | 25.083 | 0.019 | 293.2 | 290.7 | 0.0 | 0.0 |
| 21 | 152.40 | -7.00 | 0.00 | 25.311 | 25.091 | 0.022 | 293.2 | 290.8 | 0.0 | 0.0 |
| 22 | 152.40 | -5.00 | 0.00 | 25.311 | 25.089 | 0.017 | 293.3 | 290.8 | 0.0 | 0.0 |
| 23 | 152.40 | -3.00 | 0.00 | 25.311 | 25.088 | 0.017 | 293.7 | 290.8 | 0.0 | 0.0 |
| 24 | 152.40 | -1.00 | 0.00 | 25.311 | 25.100 | 0.019 | 294.0 | 290.8 | 0.0 | 0.0 |
| 25 | 152.40 | 1.00 | 0.00 | 25.311 | 25.085 | 0.015 | 293.9 | 290.7 | 0.0 | 0.0 |
| 26 | 152.40 | 3.00 | 0.00 | 25.311 | 25.109 | 0.015 | 294.2 | 290.8 | 0.0 | 0.0 |
| 27 | 152.40 | 5.00 | 0.00 | 25.311 | 25.053 | 0.013 | 294.5 | 290.8 | 0.0 | 0.0 |
| 28 | 152.40 | 7.00 | 0.00 | 25.311 | 25.110 | 0.013 | 294.4 | 290.8 | 0.0 | 0.0 |
| 29 | 152.40 | 9.00 | 0.00 | 25.311 | 25.030 | 0.016 | 294.0 | 290.8 | 0.0 | 0.0 |
| 30 | 152.40 | 11.00 | 0.00 | 25.311 | 25.010 | 0.013 | 293.9 | 290.7 | 0.0 | 0.0 |
| 31 | 152.40 | 13.00 | 0.00 | 25.311 | 24.872 | 0.013 | 293.4 | 290.8 | 0.0 | 0.0 |
| 32 | 152.40 | 15.00 | 0.00 | 25.311 | 24.313 | 0.014 | 292.9 | 290.8 | 0.0 | 0.0 |
| 33 | 152.40 | 17.00 | 0.00 | 25.311 | 23.304 | 0.017 | 292.6 | 290.8 | 0.0 | 0.0 |
| 34 | 152.40 | 19.00 | 0.00 | 25.311 | 21.526 | 0.015 | 292.5 | 290.8 | 0.0 | 0.0 |
| 35 | 152.40 | 21.00 | 0.00 | 25.311 | 18.588 | 0.016 | 292.6 | 290.8 | 0.0 | 0.0 |
| 36 | 152.40 | 23.00 | 0.00 | 25.311 | 15.444 | 0.015 | 292.5 | 290.9 | 0.0 | 0.0 |
| 37 | 152.40 | 25.00 | 0.00 | 25.311 | 12.032 | 0.013 | 292.6 | 290.9 | 0.0 | 0.0 |
| 38 | 152.40 | 27.00 | 0.00 | 25.311 | 9.469 | 0.015 | 292.4 | 290.9 | 0.0 | 0.0 |
| 39 | 152.40 | 29.00 | 0.00 | 25.311 | 6.947 | 0.015 | 292.3 | 291.0 | 0.0 | 0.0 |
| 40 | 152.40 | 31.00 | 0.00 | 25.311 | 4.714 | 0.014 | 292.2 | 291.0 | 0.0 | 0.0 |
| 41 | 152.40 | 33.00 | 0.00 | 25.311 | 3.296 | 0.013 | 292.2 | 291.1 | 0.0 | 0.0 |
| 42 | 152.40 | 35.00 | 0.00 | 25.311 | 2.109 | 0.014 | 292.3 | 291.1 | 0.0 | 0.0 |
| 43 | 152.40 | 37.00 | 0.00 | 25.311 | 1.315 | 0.014 | 292.3 | 291.1 | 0.0 | 0.0 |
| 44 | 152.40 | 39.00 | 0.00 | 25.311 | 0.714 | 0.014 | 292.2 | 291.2 | 0.0 | 0.0 |
| 45 | 152.40 | 41.00 | 0.00 | 25.311 | 0.325 | 0.015 | 292.3 | 291.1 | 0.0 | 0.0 |
| 46 | 152.40 | 43.00 | 0.00 | 25.311 | 0.129 | 0.015 | 292.4 | 291.2 | 0.0 | 0.0 |
| 47 | 152.40 | 45.00 | 0.00 | 25.311 | 0.024 | 0.013 | 292.4 | 291.2 | 0.0 | 0.0 |

TAB523T

File : TAB507T mirror image 4-OCT-88
4-OCT-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied to pressure data

INVERTED PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 465 K
VERTICAL PROFILE, PROBE FROM THE TOP
X/D = 3, DRPCOR
The sign of the vertical position has been reversed.

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi



Mean absolute ambient press. : 97.934 kPa

Mean gauged plenum pressure : 51.155 kPa
RMS gauged plenum pressure : 0.145 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 152.40 | 0.00 | 45.00 | 51.155 | 0.877 | 0.452 | 287.8 | 466.6 | 334.3 | 333.5 |
| 3 | 152.40 | 0.00 | 43.00 | 51.155 | 1.150 | 0.606 | 287.9 | 468.7 | 336.5 | 335.4 |
| 4 | 152.40 | 0.00 | 41.00 | 51.155 | 1.845 | 1.168 | 287.8 | 466.6 | 343.4 | 341.6 |
| 5 | 152.40 | 0.00 | 39.00 | 51.155 | 3.203 | 1.880 | 287.8 | 466.3 | 349.6 | 346.4 |
| 6 | 152.40 | 0.00 | 37.00 | 51.155 | 5.621 | 3.275 | 287.8 | 465.4 | 357.8 | 352.2 |
| 7 | 152.40 | 0.00 | 35.00 | 51.155 | 8.987 | 5.251 | 287.8 | 464.9 | 363.2 | 354.2 |
| 8 | 152.40 | 0.00 | 33.00 | 51.155 | 14.231 | 8.187 | 288.0 | 464.8 | 374.1 | 359.9 |
| 9 | 152.40 | 0.00 | 31.00 | 51.155 | 19.578 | 11.362 | 288.4 | 464.9 | 378.0 | 358.9 |
| 10 | 152.40 | 0.00 | 29.00 | 51.155 | 25.399 | 14.761 | 288.9 | 466.1 | 390.0 | 365.2 |
| 11 | 152.40 | 0.00 | 27.00 | 51.155 | 31.251 | 18.219 | 289.1 | 466.3 | 397.3 | 367.2 |
| 12 | 152.40 | 0.00 | 25.00 | 51.155 | 36.611 | 21.232 | 289.6 | 464.8 | 406.9 | 371.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 152.40 | 0.00 | 23.00 | 51.155 | 40.939 | 23.796 | 289.7 | 464.0 | 414.8 | 375.6 |
| 14 | 152.40 | 0.00 | 21.00 | 51.155 | 44.311 | 25.721 | 288.7 | 463.2 | 420.7 | 378.4 |
| 15 | 152.40 | 0.00 | 19.00 | 51.155 | 46.996 | 27.335 | 288.4 | 462.3 | 430.2 | 384.9 |
| 16 | 152.40 | 0.00 | 17.00 | 51.155 | 48.815 | 28.307 | 288.1 | 461.9 | 437.7 | 390.3 |
| 17 | 152.40 | 0.00 | 15.00 | 51.155 | 50.208 | 29.110 | 288.0 | 461.7 | 445.3 | 396.0 |
| 18 | 152.40 | 0.00 | 13.00 | 51.155 | 50.914 | 29.523 | 288.0 | 461.0 | 452.5 | 401.9 |
| 19 | 152.40 | 0.00 | 11.00 | 51.155 | 51.166 | 29.675 | 288.0 | 460.3 | 455.8 | 404.7 |
| 20 | 152.40 | 0.00 | 9.00 | 51.155 | 51.245 | 29.718 | 288.0 | 459.6 | 456.3 | 405.1 |
| 21 | 152.40 | 0.00 | 7.00 | 51.155 | 51.285 | 29.737 | 288.0 | 459.4 | 456.8 | 405.5 |
| 22 | 152.40 | 0.00 | 5.00 | 51.155 | 51.287 | 29.748 | 288.0 | 460.9 | 459.1 | 407.5 |
| 23 | 152.40 | 0.00 | 3.00 | 51.155 | 51.247 | 29.725 | 288.0 | 462.6 | 459.8 | 408.2 |
| 24 | 152.40 | 0.00 | 1.00 | 51.155 | 51.185 | 29.697 | 288.1 | 463.1 | 458.7 | 407.3 |
| 25 | 152.40 | 0.00 | -1.00 | 51.155 | 51.128 | 29.643 | 288.2 | 462.8 | 457.4 | 406.1 |
| 26 | 152.40 | 0.00 | -3.00 | 51.155 | 50.745 | 29.397 | 288.3 | 463.1 | 455.4 | 404.6 |
| 27 | 152.40 | 0.00 | -5.00 | 51.155 | 50.023 | 29.070 | 288.2 | 463.1 | 452.9 | 403.0 |
| 28 | 152.40 | 0.00 | -7.00 | 51.155 | 49.194 | 28.477 | 288.2 | 463.1 | 450.8 | 401.7 |
| 29 | 152.40 | 0.00 | -9.00 | 51.155 | 47.722 | 27.541 | 288.2 | 463.5 | 447.3 | 399.7 |
| 30 | 152.40 | 0.00 | -11.00 | 51.155 | 44.637 | 25.892 | 288.3 | 464.0 | 442.5 | 397.8 |
| 31 | 152.40 | 0.00 | -13.00 | 51.155 | 39.982 | 23.203 | 288.3 | 464.4 | 436.2 | 395.9 |
| 32 | 152.40 | 0.00 | -15.00 | 51.155 | 33.877 | 19.426 | 288.5 | 465.3 | 424.3 | 390.0 |
| 33 | 152.40 | 0.00 | -17.00 | 51.155 | 26.374 | 15.628 | 288.5 | 464.4 | 409.0 | 382.2 |
| 34 | 152.40 | 0.00 | -19.00 | 51.155 | 20.626 | 12.151 | 288.3 | 463.5 | 397.8 | 376.8 |
| 35 | 152.40 | 0.00 | -21.00 | 51.155 | 15.609 | 8.766 | 288.5 | 463.2 | 380.4 | 364.7 |
| 36 | 152.40 | 0.00 | -23.00 | 51.155 | 10.726 | 6.281 | 288.6 | 463.1 | 368.6 | 357.9 |
| 37 | 152.40 | 0.00 | -25.00 | 51.155 | 7.892 | 4.370 | 288.5 | 462.7 | 358.5 | 350.7 |
| 38 | 152.40 | 0.00 | -27.00 | 51.155 | 4.993 | 3.015 | 288.4 | 463.6 | 344.5 | 339.7 |
| 39 | 152.40 | 0.00 | -29.00 | 51.155 | 3.219 | 2.080 | 288.5 | 463.8 | 339.4 | 336.3 |
| 40 | 152.40 | 0.00 | -31.00 | 51.155 | 2.209 | 1.365 | 288.6 | 463.8 | 329.1 | 327.0 |
| 41 | 152.40 | 0.00 | -33.00 | 51.155 | 1.634 | 0.880 | 288.6 | 464.8 | 322.3 | 320.8 |
| 42 | 152.40 | 0.00 | -35.00 | 51.155 | 0.791 | 0.383 | 288.7 | 464.7 | 315.1 | 314.4 |
| 43 | 152.40 | 0.00 | -37.00 | 51.155 | 0.355 | 0.188 | 289.0 | 465.5 | 305.1 | 304.8 |
| 44 | 152.40 | 0.00 | -39.00 | 51.155 | 0.115 | 0.104 | 289.4 | 462.9 | 303.5 | 303.4 |
| 45 | 152.40 | 0.00 | -41.00 | 51.155 | 0.169 | 0.131 | 290.1 | 462.1 | 305.1 | 304.9 |
| 46 | 152.40 | 0.00 | -43.00 | 51.155 | 0.334 | 0.199 | 290.4 | 461.5 | 306.9 | 306.6 |
| 47 | 152.40 | 0.00 | -45.00 | 51.155 | 0.329 | 0.196 | 290.5 | 461.4 | 306.7 | 306.4 |

File : TAB508S 4-OCT-88
4-OCT-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied
to pressure data

B/L PROBE PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 470 K
B/L PROBE FROM THE BOTTOM
X/D = 3, DRPTAB

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum temperature
T3 : Probe temperature
A1 :

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.934 kPa

Mean gauged plenum pressure : 51.196 kPa
RMS gauged plenum pressure : 0.214 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | A1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 152.40 | 0.00 | -45.00 | 51.196 | 0.425 | 0.201 | 293.8 | 468.2 | 293.6 | 0.0 |
| 3 | 152.40 | 0.00 | -43.00 | 51.196 | 0.556 | 0.337 | 293.9 | 468.2 | 293.6 | 0.0 |
| 4 | 152.40 | 0.00 | -41.00 | 51.196 | 1.134 | 0.661 | 293.9 | 468.7 | 293.6 | 0.0 |
| 5 | 152.40 | 0.00 | -39.00 | 51.196 | 2.147 | 1.258 | 294.8 | 468.9 | 293.8 | 0.0 |
| 6 | 152.40 | 0.00 | -37.00 | 51.196 | 3.678 | 2.134 | 295.4 | 468.9 | 293.7 | 0.0 |
| 7 | 152.40 | 0.00 | -35.00 | 51.196 | 5.874 | 3.435 | 295.8 | 469.2 | 293.8 | 0.0 |
| 8 | 152.40 | 0.00 | -33.00 | 51.196 | 8.866 | 5.176 | 295.6 | 469.6 | 293.7 | 0.0 |
| 9 | 152.40 | 0.00 | -31.00 | 51.196 | 12.997 | 7.603 | 295.5 | 470.1 | 293.9 | 0.0 |
| 10 | 152.40 | 0.00 | -29.00 | 51.196 | 18.640 | 10.821 | 295.2 | 469.5 | 293.8 | 0.0 |
| 11 | 152.40 | 0.00 | -27.00 | 51.196 | 25.327 | 14.739 | 295.6 | 469.2 | 293.8 | 0.0 |
| 12 | 152.40 | 0.00 | -25.00 | 51.196 | 33.093 | 19.206 | 295.0 | 469.4 | 293.7 | 0.0 |
| 13 | 152.40 | 0.00 | -23.00 | 51.196 | 40.612 | 23.536 | 294.6 | 470.1 | 294.0 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 152.40 | 0.00 | -21.00 | 51.196 | 46.179 | 26.799 | 294.6 | 471.3 | 294.0 | 0.0 |
| 15 | 152.40 | 0.00 | -19.00 | 51.196 | 49.366 | 28.640 | 294.6 | 471.9 | 294.1 | 0.0 |
| 16 | 152.40 | 0.00 | -17.00 | 51.196 | 50.437 | 29.240 | 294.6 | 472.4 | 294.1 | 0.0 |
| 17 | 152.40 | 0.00 | -15.00 | 51.196 | 50.639 | 29.356 | 294.5 | 471.5 | 294.1 | 0.0 |
| 18 | 152.40 | 0.00 | -13.00 | 51.196 | 50.620 | 29.354 | 294.5 | 472.0 | 294.2 | 0.0 |
| 19 | 152.40 | 0.00 | -11.00 | 51.196 | 50.585 | 29.333 | 294.3 | 471.5 | 293.9 | 0.0 |
| 20 | 152.40 | 0.00 | -9.00 | 51.196 | 50.549 | 29.315 | 294.3 | 471.3 | 293.9 | 0.0 |
| 21 | 152.40 | 0.00 | -7.00 | 51.196 | 50.534 | 29.285 | 294.2 | 471.5 | 294.0 | 0.0 |
| 22 | 152.40 | 0.00 | -5.00 | 51.196 | 50.477 | 29.274 | 294.4 | 470.3 | 294.0 | 0.0 |
| 23 | 152.40 | 0.00 | -3.00 | 51.196 | 50.429 | 29.250 | 294.3 | 469.7 | 294.0 | 0.0 |
| 24 | 152.40 | 0.00 | -1.00 | 51.196 | 50.377 | 29.219 | 294.1 | 469.3 | 293.8 | 0.0 |
| 25 | 152.40 | 0.00 | 1.00 | 51.196 | 50.246 | 29.144 | 294.1 | 469.0 | 294.0 | 0.0 |
| 26 | 152.40 | 0.00 | 3.00 | 51.196 | 49.652 | 28.771 | 294.1 | 467.8 | 294.1 | 0.0 |
| 27 | 152.40 | 0.00 | 5.00 | 51.196 | 47.276 | 27.416 | 294.1 | 466.9 | 294.1 | 0.0 |
| 28 | 152.40 | 0.00 | 7.00 | 51.196 | 43.157 | 24.983 | 294.3 | 467.0 | 294.5 | 0.0 |
| 29 | 152.40 | 0.00 | 9.00 | 51.196 | 37.716 | 21.818 | 294.4 | 468.9 | 294.4 | 0.0 |
| 30 | 152.40 | 0.00 | 11.00 | 51.196 | 31.029 | 17.831 | 294.6 | 470.4 | 294.4 | 0.0 |
| 31 | 152.40 | 0.00 | 13.00 | 51.196 | 22.756 | 13.125 | 295.3 | 469.7 | 294.6 | 0.0 |
| 32 | 152.40 | 0.00 | 15.00 | 51.196 | 12.913 | 7.369 | 295.8 | 469.2 | 294.8 | 0.0 |
| 33 | 152.40 | 0.00 | 17.00 | 51.196 | -5.465 | -3.555 | 295.9 | 472.0 | 295.0 | 0.0 |
| 34 | 152.40 | 0.00 | 19.00 | 51.196 | -27.102 | -15.773 | 295.6 | 468.1 | 295.3 | 0.0 |
| 35 | 152.40 | 0.00 | 21.00 | 51.196 | -26.192 | -15.088 | 295.7 | 469.4 | 295.3 | 0.0 |
| 36 | 152.40 | 0.00 | 23.00 | 51.196 | -21.535 | -12.464 | 296.3 | 469.5 | 295.2 | 0.0 |
| 37 | 152.40 | 0.00 | 25.00 | 51.196 | -21.883 | -12.852 | 296.3 | 470.0 | 294.9 | 0.0 |
| 38 | 152.40 | 0.00 | 27.00 | 51.196 | -22.661 | -13.062 | 295.8 | 469.2 | 294.9 | 0.0 |
| 39 | 152.40 | 0.00 | 29.00 | 51.196 | -24.547 | -14.268 | 295.9 | 469.7 | 295.3 | 0.0 |
| 40 | 152.40 | 0.00 | 31.00 | 51.196 | -26.064 | -15.123 | 295.2 | 467.4 | 295.2 | 0.0 |
| 41 | 152.40 | 0.00 | 33.00 | 51.196 | -28.158 | -16.350 | 294.9 | 467.4 | 295.3 | 0.0 |
| 42 | 152.40 | 0.00 | 35.00 | 51.196 | -30.694 | -17.795 | 294.9 | 471.7 | 295.1 | 0.0 |
| 43 | 152.40 | 0.00 | 37.00 | 51.196 | -33.899 | -19.596 | 294.8 | 472.7 | 295.5 | 0.0 |
| 44 | 152.40 | 0.00 | 39.00 | 51.196 | -37.253 | -21.614 | 294.8 | 471.7 | 295.7 | 0.0 |
| 45 | 152.40 | 0.00 | 41.00 | 51.196 | -39.028 | -22.659 | 294.9 | 471.0 | 295.6 | 0.0 |
| 46 | 152.40 | 0.00 | 43.00 | 51.196 | -39.070 | -22.696 | 294.8 | 470.6 | 295.4 | 0.0 |
| 47 | 152.40 | 0.00 | 45.00 | 51.196 | -37.475 | -21.634 | 294.7 | 469.5 | 295.0 | 0.0 |

File : TAB513T 11-OCT-88
10-OCT-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied to pressure data

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 465 K
CENTRO T/C PROBE
TEMPERATURE ONLY
X/D = 1, DRPTAB

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.205 kPa

Mean gauged plenum pressure : 51.269 kPa
RMS gauged plenum pressure : 0.093 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 50.80 | -28.00 | 0.00 | 51.269 | 0.011 | 0.012 | 290.5 | 467.2 | 370.1 | 370.1 |
| 3 | 50.80 | -26.00 | 0.00 | 51.269 | 0.011 | 0.012 | 290.4 | 466.7 | 409.6 | 409.6 |
| 4 | 50.80 | -24.00 | 0.00 | 51.269 | 0.011 | 0.011 | 290.4 | 466.4 | 443.3 | 443.3 |
| 5 | 50.80 | -22.00 | 0.00 | 51.269 | 0.011 | 0.012 | 290.4 | 466.3 | 458.6 | 458.6 |
| 6 | 50.80 | -20.00 | 0.00 | 51.269 | 0.012 | 0.012 | 290.4 | 466.4 | 463.4 | 463.4 |
| 7 | 50.80 | -18.00 | 0.00 | 51.269 | 0.012 | 0.012 | 290.5 | 466.6 | 464.3 | 464.3 |
| 8 | 50.80 | -16.00 | 0.00 | 51.269 | 0.012 | 0.012 | 290.5 | 467.0 | 464.6 | 464.6 |
| 9 | 50.80 | -14.00 | 0.00 | 51.269 | 0.012 | 0.012 | 290.5 | 467.3 | 465.0 | 465.0 |
| 10 | 50.80 | -12.00 | 0.00 | 51.269 | 0.013 | 0.012 | 290.4 | 467.0 | 465.0 | 465.0 |
| 11 | 50.80 | -10.00 | 0.00 | 51.269 | 0.012 | 0.012 | 290.5 | 466.6 | 464.5 | 464.5 |
| 12 | 50.80 | -8.00 | 0.00 | 51.269 | 0.013 | 0.012 | 290.6 | 466.6 | 464.5 | 464.5 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 50.80 | -6.00 | 0.00 | 51.269 | 0.013 | 0.012 | 290.6 | 466.6 | 464.7 | 464.7 |
| 14 | 50.80 | -4.00 | 0.00 | 51.269 | 0.013 | 0.013 | 290.6 | 466.5 | 464.4 | 464.4 |
| 15 | 50.80 | -2.00 | 0.00 | 51.269 | 0.014 | 0.013 | 290.6 | 466.3 | 464.3 | 464.3 |
| 16 | 50.80 | 0.00 | 0.00 | 51.269 | 0.014 | 0.012 | 290.6 | 466.3 | 464.2 | 464.2 |
| 17 | 50.80 | 2.00 | 0.00 | 51.269 | 0.014 | 0.014 | 290.5 | 466.4 | 464.6 | 464.6 |
| 18 | 50.80 | 4.00 | 0.00 | 51.269 | 0.015 | 0.015 | 290.5 | 466.4 | 464.5 | 464.5 |
| 19 | 50.80 | 6.00 | 0.00 | 51.269 | 0.014 | 0.013 | 290.5 | 466.3 | 464.6 | 464.6 |
| 20 | 50.80 | 8.00 | 0.00 | 51.269 | 0.016 | 0.013 | 290.8 | 466.2 | 464.4 | 464.4 |
| 21 | 50.80 | 10.00 | 0.00 | 51.269 | 0.016 | 0.014 | 290.8 | 465.6 | 463.5 | 463.5 |
| 22 | 50.80 | 12.00 | 0.00 | 51.269 | 0.020 | 0.017 | 290.8 | 465.8 | 463.7 | 463.7 |
| 23 | 50.80 | 14.00 | 0.00 | 51.269 | 0.023 | 0.014 | 291.0 | 465.9 | 463.6 | 463.6 |
| 24 | 50.80 | 16.00 | 0.00 | 51.269 | 0.025 | 0.014 | 291.1 | 465.9 | 462.9 | 462.9 |
| 25 | 50.80 | 18.00 | 0.00 | 51.269 | 0.033 | 0.023 | 291.1 | 465.6 | 462.0 | 462.0 |
| 26 | 50.80 | 20.00 | 0.00 | 51.269 | 0.032 | 0.023 | 291.0 | 465.5 | 456.2 | 456.2 |
| 27 | 50.80 | 22.00 | 0.00 | 51.269 | 0.034 | 0.023 | 291.5 | 465.4 | 444.3 | 444.3 |
| 28 | 50.80 | 24.00 | 0.00 | 51.269 | 0.031 | 0.022 | 292.1 | 465.3 | 423.9 | 423.9 |
| 29 | 50.80 | 26.00 | 0.00 | 51.269 | 0.038 | 0.021 | 292.4 | 465.1 | 384.9 | 384.9 |
| 30 | 50.80 | 28.00 | 0.00 | 51.269 | 0.038 | 0.026 | 292.2 | 465.2 | 353.4 | 353.4 |

File : TAB515T 11-OCT-88
10-OCT-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied to pressure data

HORIZONTAL PROFILE

Unexcited, heated jet, Mj = 0.8, Tt = 472 K
IN-HOUSE T/C PROBE
STRONG TONE, 2K+/-
X/D = 1, DRPTAB

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.901 kPa

Mean gauged plenum pressure : 51.232 kPa
RMS gauged plenum pressure : 0.147 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 50.80 | -28.00 | 0.00 | 51.232 | 0.039 | 0.017 | 293.0 | 470.6 | 379.6 | 379.6 |
| 3 | 50.80 | -26.00 | 0.00 | 51.232 | 0.044 | 0.017 | 293.1 | 470.6 | 407.5 | 407.4 |
| 4 | 50.80 | -24.00 | 0.00 | 51.232 | 0.042 | 0.020 | 293.0 | 470.5 | 429.4 | 429.3 |
| 5 | 50.80 | -22.00 | 0.00 | 51.232 | 0.049 | 0.024 | 293.0 | 470.8 | 459.2 | 459.1 |
| 6 | 50.80 | -20.00 | 0.00 | 51.232 | 0.060 | 0.025 | 292.8 | 471.4 | 464.5 | 464.4 |
| 7 | 50.80 | -18.00 | 0.00 | 51.232 | 0.048 | 0.020 | 293.2 | 471.8 | 466.7 | 466.6 |
| 8 | 50.80 | -16.00 | 0.00 | 51.232 | 0.045 | 0.020 | 293.5 | 473.3 | 469.2 | 469.1 |
| 9 | 50.80 | -14.00 | 0.00 | 51.232 | 0.053 | 0.024 | 293.6 | 475.8 | 471.2 | 471.1 |
| 10 | 50.80 | -12.00 | 0.00 | 51.232 | 0.053 | 0.026 | 293.7 | 474.1 | 469.3 | 469.2 |
| 11 | 50.80 | -10.00 | 0.00 | 51.232 | 0.060 | 0.028 | 293.7 | 473.1 | 468.6 | 468.5 |
| 12 | 50.80 | -8.00 | 0.00 | 51.232 | 0.063 | 0.030 | 293.7 | 472.8 | 468.1 | 468.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 13 | 50.80 | -6.00 | 0.00 | 51.232 | 0.063 | 0.035 | 293.4 | 472.4 | 468.0 | 467.9 |
| 14 | 50.80 | -4.00 | 0.00 | 51.232 | 0.063 | 0.034 | 293.3 | 471.9 | 467.2 | 467.1 |
| 15 | 50.80 | -2.00 | 0.00 | 51.232 | 0.068 | 0.034 | 293.1 | 471.7 | 467.4 | 467.3 |
| 16 | 50.80 | 0.00 | 0.00 | 51.232 | 0.072 | 0.040 | 293.0 | 471.9 | 467.4 | 467.3 |
| 17 | 50.80 | 2.00 | 0.00 | 51.232 | 0.075 | 0.038 | 293.2 | 471.8 | 467.3 | 467.2 |
| 18 | 50.80 | 4.00 | 0.00 | 51.232 | 0.075 | 0.037 | 293.5 | 471.6 | 467.1 | 467.0 |
| 19 | 50.80 | 6.00 | 0.00 | 51.232 | 0.074 | 0.039 | 294.2 | 471.6 | 467.0 | 466.9 |
| 20 | 50.80 | 8.00 | 0.00 | 51.232 | 0.074 | 0.036 | 294.6 | 471.6 | 467.1 | 467.0 |
| 21 | 50.80 | 10.00 | 0.00 | 51.232 | 0.071 | 0.037 | 294.4 | 471.6 | 467.3 | 467.2 |
| 22 | 50.80 | 12.00 | 0.00 | 51.232 | 0.075 | 0.039 | 294.5 | 471.6 | 467.0 | 466.9 |
| 23 | 50.80 | 14.00 | 0.00 | 51.232 | 0.074 | 0.040 | 294.6 | 471.3 | 466.6 | 466.5 |
| 24 | 50.80 | 16.00 | 0.00 | 51.232 | 0.075 | 0.039 | 294.8 | 470.8 | 465.8 | 465.7 |
| 25 | 50.80 | 18.00 | 0.00 | 51.232 | 0.071 | 0.038 | 294.9 | 470.5 | 465.4 | 465.3 |
| 26 | 50.80 | 20.00 | 0.00 | 51.232 | 0.069 | 0.037 | 294.6 | 470.2 | 458.1 | 458.0 |
| 27 | 50.80 | 22.00 | 0.00 | 51.232 | 0.075 | 0.041 | 294.3 | 470.3 | 445.1 | 445.0 |
| 28 | 50.80 | 24.00 | 0.00 | 51.232 | 0.069 | 0.044 | 294.3 | 470.8 | 415.3 | 415.2 |
| 29 | 50.80 | 26.00 | 0.00 | 51.232 | 0.068 | 0.041 | 294.4 | 471.4 | 392.9 | 392.8 |
| 30 | 50.80 | 28.00 | 0.00 | 51.232 | 0.065 | 0.039 | 294.5 | 471.9 | 358.8 | 358.7 |

File : TAB049S 8-SEP-88
8-SEP-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied
to pressure data

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
X/D = 1, REPEAT OF #48
DRPCOR

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum temperature
T3 : Probe temperature
A1 :

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.171 kPa

Mean gauged plenum pressure : 51.535 kPa
RMS gauged plenum pressure : 0.058 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | A1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 50.80 | 0.00 | -13.00 | 51.535 | 6.588 | 7.211 | 293.6 | 290.8 | 289.1 | 0.0 |
| 3 | 50.80 | 0.00 | -12.50 | 51.535 | 7.697 | 8.324 | 293.5 | 290.9 | 289.5 | 0.0 |
| 4 | 50.80 | 0.00 | -12.00 | 51.535 | 9.995 | 10.699 | 293.5 | 290.9 | 289.4 | 0.0 |
| 5 | 50.80 | 0.00 | -11.50 | 51.535 | 13.000 | 13.695 | 293.5 | 291.0 | 289.9 | 0.0 |
| 6 | 50.80 | 0.00 | -11.00 | 51.535 | 16.673 | 17.317 | 293.5 | 291.0 | 290.8 | 0.0 |
| 7 | 50.80 | 0.00 | -10.50 | 51.535 | 20.816 | 21.471 | 293.6 | 291.1 | 291.3 | 0.0 |
| 8 | 50.80 | 0.00 | -10.00 | 51.535 | 25.313 | 25.925 | 293.6 | 291.1 | 292.1 | 0.0 |
| 9 | 50.80 | 0.00 | -9.50 | 51.535 | 30.130 | 30.820 | 293.6 | 291.1 | 292.6 | 0.0 |
| 10 | 50.80 | 0.00 | -9.00 | 51.535 | 34.673 | 35.316 | 293.6 | 291.2 | 293.2 | 0.0 |
| 11 | 50.80 | 0.00 | -8.50 | 51.535 | 38.997 | 39.574 | 293.5 | 291.2 | 293.5 | 0.0 |
| 12 | 50.80 | 0.00 | -8.00 | 51.535 | 42.803 | 43.491 | 293.5 | 291.2 | 293.4 | 0.0 |
| 13 | 50.80 | 0.00 | -7.50 | 51.535 | 45.782 | 46.418 | 293.4 | 291.2 | 293.2 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 50.80 | 0.00 | -7.00 | 51.535 | 48.006 | 48.625 | 293.5 | 291.2 | 292.7 | 0.0 |
| 15 | 50.80 | 0.00 | -6.50 | 51.535 | 49.541 | 50.158 | 293.6 | 291.3 | 292.4 | 0.0 |
| 16 | 50.80 | 0.00 | -6.00 | 51.535 | 50.383 | 50.965 | 293.4 | 291.3 | 292.2 | 0.0 |
| 17 | 50.80 | 0.00 | -5.50 | 51.535 | 50.924 | 51.520 | 293.3 | 291.3 | 291.8 | 0.0 |
| 18 | 50.80 | 0.00 | -5.00 | 51.535 | 51.265 | 51.834 | 293.3 | 291.3 | 291.7 | 0.0 |
| 19 | 50.80 | 0.00 | -4.50 | 51.535 | 51.419 | 52.029 | 293.4 | 291.3 | 291.4 | 0.0 |
| 20 | 50.80 | 0.00 | -4.00 | 51.535 | 51.520 | 52.126 | 294.3 | 291.3 | 291.3 | 0.0 |
| 21 | 50.80 | 0.00 | -3.50 | 51.535 | 51.555 | 52.177 | 294.7 | 291.3 | 291.3 | 0.0 |
| 22 | 50.80 | 0.00 | -3.00 | 51.535 | 51.569 | 52.194 | 294.7 | 291.3 | 291.2 | 0.0 |
| 23 | 50.80 | 0.00 | -2.50 | 51.535 | 51.571 | 52.224 | 295.1 | 291.3 | 291.2 | 0.0 |
| 24 | 50.80 | 0.00 | -2.00 | 51.535 | 51.573 | 52.256 | 295.3 | 291.4 | 291.2 | 0.0 |
| 25 | 50.80 | 0.00 | -1.50 | 51.535 | 51.584 | 52.280 | 295.3 | 291.4 | 291.1 | 0.0 |
| 26 | 50.80 | 0.00 | -1.00 | 51.535 | 51.594 | 52.307 | 295.3 | 291.4 | 291.1 | 0.0 |
| 27 | 50.80 | 0.00 | -0.50 | 51.535 | 51.609 | 52.377 | 295.2 | 291.3 | 291.1 | 0.0 |
| 28 | 50.80 | 0.00 | 0.00 | 51.535 | 51.605 | 52.393 | 294.3 | 291.3 | 291.1 | 0.0 |
| 29 | 50.80 | 0.00 | 0.50 | 51.535 | 51.611 | 52.448 | 293.9 | 291.4 | 291.1 | 0.0 |
| 30 | 50.80 | 0.00 | 1.00 | 51.535 | 51.621 | 52.476 | 293.9 | 291.4 | 291.1 | 0.0 |
| 31 | 50.80 | 0.00 | 1.50 | 51.535 | 51.614 | 52.522 | 293.8 | 291.4 | 291.1 | 0.0 |
| 32 | 50.80 | 0.00 | 2.00 | 51.535 | 51.589 | 52.509 | 293.7 | 291.4 | 291.1 | 0.0 |
| 33 | 50.80 | 0.00 | 2.50 | 51.535 | 51.585 | 52.535 | 293.7 | 291.4 | 291.0 | 0.0 |
| 34 | 50.80 | 0.00 | 3.00 | 51.535 | 51.568 | 52.555 | 293.7 | 291.4 | 291.1 | 0.0 |
| 35 | 50.80 | 0.00 | 3.50 | 51.535 | 51.561 | 52.593 | 293.7 | 291.4 | 291.0 | 0.0 |
| 36 | 50.80 | 0.00 | 4.00 | 51.535 | 51.533 | 52.563 | 293.8 | 291.4 | 291.0 | 0.0 |
| 37 | 50.80 | 0.00 | 4.50 | 51.535 | 51.416 | 52.479 | 293.8 | 291.4 | 291.1 | 0.0 |
| 38 | 50.80 | 0.00 | 5.00 | 51.535 | 51.276 | 52.367 | 293.7 | 291.4 | 291.3 | 0.0 |
| 39 | 50.80 | 0.00 | 5.50 | 51.535 | 50.967 | 52.055 | 293.7 | 291.4 | 291.6 | 0.0 |
| 40 | 50.80 | 0.00 | 6.00 | 51.535 | 50.475 | 51.481 | 293.7 | 291.5 | 292.2 | 0.0 |
| 41 | 50.80 | 0.00 | 6.50 | 51.535 | 49.721 | 50.917 | 293.7 | 291.5 | 292.6 | 0.0 |
| 42 | 50.80 | 0.00 | 7.00 | 51.535 | 48.833 | 49.903 | 293.7 | 291.5 | 293.0 | 0.0 |
| 43 | 50.80 | 0.00 | 7.50 | 51.535 | 47.591 | 48.726 | 293.6 | 291.4 | 293.4 | 0.0 |
| 44 | 50.80 | 0.00 | 8.00 | 51.535 | 46.240 | 47.309 | 293.6 | 291.4 | 293.8 | 0.0 |
| 45 | 50.80 | 0.00 | 8.50 | 51.535 | 44.720 | 45.764 | 294.1 | 291.4 | 294.0 | 0.0 |
| 46 | 50.80 | 0.00 | 9.00 | 51.535 | 42.807 | 43.769 | 294.8 | 291.4 | 294.2 | 0.0 |
| 47 | 50.80 | 0.00 | 9.50 | 51.535 | 40.915 | 41.891 | 295.5 | 291.4 | 294.2 | 0.0 |
| 48 | 50.80 | 0.00 | 10.00 | 51.535 | 38.710 | 39.746 | 295.9 | 291.5 | 293.8 | 0.0 |
| 49 | 50.80 | 0.00 | 10.50 | 51.535 | 36.617 | 37.572 | 296.1 | 291.5 | 293.6 | 0.0 |
| 50 | 50.80 | 0.00 | 11.00 | 51.535 | 34.408 | 35.431 | 296.1 | 291.5 | 292.9 | 0.0 |
| 51 | 50.80 | 0.00 | 11.50 | 51.535 | 32.170 | 33.134 | 295.9 | 291.5 | 292.6 | 0.0 |
| 52 | 50.80 | 0.00 | 12.00 | 51.535 | 30.107 | 31.083 | 295.7 | 291.5 | 291.8 | 0.0 |
| 53 | 50.80 | 0.00 | 12.50 | 51.535 | 27.891 | 28.804 | 295.7 | 291.5 | 291.1 | 0.0 |
| 54 | 50.80 | 0.00 | 13.00 | 51.535 | 25.683 | 26.553 | 295.3 | 291.5 | 290.3 | 0.0 |

File : TAB053S 8-SEP-88
8-SEP-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied to pressure data

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
X/D = 1, DRPCOR
** NOZZLE UPSIDE DOWN **

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum temperature
T3 : Probe temperature
A1 :

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.867 kPa

Mean gauged plenum pressure : 51.372 kPa
RMS gauged plenum pressure : 0.133 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | A1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 50.80 | 0.00 | -13.00 | 51.372 | 1.221 | 1.875 | 299.2 | 293.4 | 294.2 | 0.0 |
| 3 | 50.80 | 0.00 | -12.50 | 51.372 | 1.530 | 2.198 | 299.4 | 293.3 | 293.9 | 0.0 |
| 4 | 50.80 | 0.00 | -12.00 | 51.372 | 2.310 | 2.998 | 299.4 | 293.1 | 293.0 | 0.0 |
| 5 | 50.80 | 0.00 | -11.50 | 51.372 | 3.609 | 4.284 | 299.9 | 293.0 | 292.8 | 0.0 |
| 6 | 50.80 | 0.00 | -11.00 | 51.372 | 5.294 | 5.953 | 300.3 | 293.0 | 292.7 | 0.0 |
| 7 | 50.80 | 0.00 | -10.50 | 51.372 | 7.446 | 8.130 | 300.7 | 292.9 | 292.9 | 0.0 |
| 8 | 50.80 | 0.00 | -10.00 | 51.372 | 10.002 | 10.727 | 300.9 | 292.9 | 292.7 | 0.0 |
| 9 | 50.80 | 0.00 | -9.50 | 51.372 | 13.071 | 13.775 | 300.9 | 292.8 | 292.9 | 0.0 |
| 10 | 50.80 | 0.00 | -9.00 | 51.372 | 16.613 | 17.289 | 301.1 | 292.8 | 293.3 | 0.0 |
| 11 | 50.80 | 0.00 | -8.50 | 51.372 | 20.666 | 21.272 | 301.0 | 292.7 | 293.7 | 0.0 |
| 12 | 50.80 | 0.00 | -8.00 | 51.372 | 25.170 | 25.907 | 300.6 | 292.6 | 294.1 | 0.0 |
| 13 | 50.80 | 0.00 | -7.50 | 51.372 | 29.949 | 30.682 | 300.6 | 292.6 | 294.4 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 50.80 | 0.00 | -7.00 | 51.372 | 34.871 | 35.567 | 300.4 | 292.5 | 294.9 | 0.0 |
| 15 | 50.80 | 0.00 | -6.50 | 51.372 | 39.047 | 39.802 | 300.2 | 292.5 | 294.9 | 0.0 |
| 16 | 50.80 | 0.00 | -6.00 | 51.372 | 42.918 | 43.679 | 300.2 | 292.5 | 294.8 | 0.0 |
| 17 | 50.80 | 0.00 | -5.50 | 51.372 | 45.824 | 46.579 | 300.3 | 292.5 | 294.4 | 0.0 |
| 18 | 50.80 | 0.00 | -5.00 | 51.372 | 47.835 | 48.571 | 299.8 | 292.6 | 294.2 | 0.0 |
| 19 | 50.80 | 0.00 | -4.50 | 51.372 | 49.364 | 50.055 | 299.4 | 292.6 | 293.7 | 0.0 |
| 20 | 50.80 | 0.00 | -4.00 | 51.372 | 50.160 | 50.847 | 299.3 | 292.5 | 293.4 | 0.0 |
| 21 | 50.80 | 0.00 | -3.50 | 51.372 | 50.699 | 51.376 | 299.4 | 292.7 | 293.1 | 0.0 |
| 22 | 50.80 | 0.00 | -3.00 | 51.372 | 51.032 | 51.717 | 299.0 | 292.7 | 292.9 | 0.0 |
| 23 | 50.80 | 0.00 | -2.50 | 51.372 | 51.205 | 51.865 | 298.9 | 292.7 | 292.8 | 0.0 |
| 24 | 50.80 | 0.00 | -2.00 | 51.372 | 51.280 | 51.952 | 299.0 | 292.6 | 292.6 | 0.0 |
| 25 | 50.80 | 0.00 | -1.50 | 51.372 | 51.292 | 51.970 | 299.3 | 292.7 | 292.6 | 0.0 |
| 26 | 50.80 | 0.00 | -1.00 | 51.372 | 51.323 | 52.011 | 299.4 | 292.7 | 292.5 | 0.0 |
| 27 | 50.80 | 0.00 | -0.50 | 51.372 | 51.333 | 52.051 | 299.4 | 292.7 | 292.5 | 0.0 |
| 28 | 50.80 | 0.00 | 0.00 | 51.372 | 51.314 | 52.039 | 299.6 | 292.7 | 292.5 | 0.0 |
| 29 | 50.80 | 0.00 | 0.50 | 51.372 | 51.338 | 52.101 | 299.5 | 292.7 | 292.5 | 0.0 |
| 30 | 50.80 | 0.00 | 1.00 | 51.372 | 51.355 | 52.142 | 299.6 | 292.8 | 292.5 | 0.0 |
| 31 | 50.80 | 0.00 | 1.50 | 51.372 | 51.340 | 52.186 | 299.5 | 292.8 | 292.5 | 0.0 |
| 32 | 50.80 | 0.00 | 2.00 | 51.372 | 51.363 | 52.218 | 300.1 | 292.8 | 292.5 | 0.0 |
| 33 | 50.80 | 0.00 | 2.50 | 51.372 | 51.368 | 52.292 | 300.7 | 292.8 | 292.4 | 0.0 |
| 34 | 50.80 | 0.00 | 3.00 | 51.372 | 51.359 | 52.301 | 300.9 | 292.8 | 292.4 | 0.0 |
| 35 | 50.80 | 0.00 | 3.50 | 51.372 | 51.353 | 52.306 | 300.8 | 292.8 | 292.4 | 0.0 |
| 36 | 50.80 | 0.00 | 4.00 | 51.372 | 51.324 | 52.333 | 300.8 | 292.7 | 292.4 | 0.0 |
| 37 | 50.80 | 0.00 | 4.50 | 51.372 | 51.294 | 52.319 | 301.0 | 292.8 | 292.5 | 0.0 |
| 38 | 50.80 | 0.00 | 5.00 | 51.372 | 51.273 | 52.366 | 301.0 | 292.7 | 292.3 | 0.0 |
| 39 | 50.80 | 0.00 | 5.50 | 51.372 | 51.296 | 52.453 | 300.8 | 292.7 | 292.3 | 0.0 |
| 40 | 50.80 | 0.00 | 6.00 | 51.372 | 51.282 | 52.421 | 300.6 | 292.8 | 292.4 | 0.0 |
| 41 | 50.80 | 0.00 | 6.50 | 51.372 | 51.234 | 52.422 | 300.5 | 292.8 | 292.5 | 0.0 |
| 42 | 50.80 | 0.00 | 7.00 | 51.372 | 51.024 | 52.219 | 300.3 | 292.8 | 292.5 | 0.0 |
| 43 | 50.80 | 0.00 | 7.50 | 51.372 | 50.816 | 52.070 | 300.4 | 292.8 | 293.0 | 0.0 |
| 44 | 50.80 | 0.00 | 8.00 | 51.372 | 50.368 | 51.573 | 300.7 | 292.8 | 293.3 | 0.0 |
| 45 | 50.80 | 0.00 | 8.50 | 51.372 | 49.716 | 50.867 | 300.1 | 292.8 | 293.8 | 0.0 |
| 46 | 50.80 | 0.00 | 9.00 | 51.372 | 48.873 | 50.052 | 299.9 | 292.8 | 294.6 | 0.0 |
| 47 | 50.80 | 0.00 | 9.50 | 51.372 | 47.985 | 49.170 | 299.9 | 292.8 | 294.8 | 0.0 |
| 48 | 50.80 | 0.00 | 10.00 | 51.372 | 46.494 | 47.813 | 299.9 | 292.7 | 295.3 | 0.0 |
| 49 | 50.80 | 0.00 | 10.50 | 51.372 | 44.957 | 46.109 | 299.6 | 292.6 | 295.4 | 0.0 |
| 50 | 50.80 | 0.00 | 11.00 | 51.372 | 43.144 | 44.174 | 299.5 | 292.6 | 295.9 | 0.0 |
| 51 | 50.80 | 0.00 | 11.50 | 51.372 | 41.205 | 42.277 | 299.3 | 292.5 | 295.9 | 0.0 |
| 52 | 50.80 | 0.00 | 12.00 | 51.372 | 39.094 | 40.232 | 299.0 | 292.5 | 295.7 | 0.0 |
| 53 | 50.80 | 0.00 | 12.50 | 51.372 | 36.971 | 38.020 | 298.9 | 292.4 | 295.6 | 0.0 |
| 54 | 50.80 | 0.00 | 13.00 | 51.372 | 34.724 | 35.834 | 298.9 | 292.4 | 295.2 | 0.0 |

File : TAB048S 8-SEP-88
8-SEP-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied
to pressure data

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
X/D = 1, Kiel probe, DRPCOR

C1 : AXIAL
C2 : HORIZONTAL ,
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum temperature
T3 : Probe temperature
A1 :

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.138 kPa

Mean gauged plenum pressure : 51.485 kPa
RMS gauged plenum pressure : 0.056 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | A1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 50.80 | 0.00 | -13.00 | 51.485 | 6.584 | 7.260 | 289.0 | 290.7 | 286.9 | 0.0 |
| 3 | 50.80 | 0.00 | -12.50 | 51.485 | 7.697 | 8.357 | 289.0 | 290.7 | 287.0 | 0.0 |
| 4 | 50.80 | 0.00 | -12.00 | 51.485 | 9.942 | 10.638 | 289.0 | 290.7 | 287.5 | 0.0 |
| 5 | 50.80 | 0.00 | -11.50 | 51.485 | 13.034 | 13.723 | 289.0 | 290.7 | 288.2 | 0.0 |
| 6 | 50.80 | 0.00 | -11.00 | 51.485 | 16.671 | 17.312 | 289.0 | 290.7 | 288.8 | 0.0 |
| 7 | 50.80 | 0.00 | -10.50 | 51.485 | 20.696 | 21.374 | 289.0 | 290.7 | 289.6 | 0.0 |
| 8 | 50.80 | 0.00 | -10.00 | 51.485 | 25.218 | 25.823 | 289.0 | 290.7 | 290.3 | 0.0 |
| 9 | 50.80 | 0.00 | -9.50 | 51.485 | 29.804 | 30.477 | 289.0 | 290.6 | 291.1 | 0.0 |
| 10 | 50.80 | 0.00 | -9.00 | 51.485 | 34.522 | 35.215 | 289.1 | 290.7 | 291.7 | 0.0 |
| 11 | 50.80 | 0.00 | -8.50 | 51.485 | 39.144 | 39.694 | 289.1 | 290.6 | 291.9 | 0.0 |
| 12 | 50.80 | 0.00 | -8.00 | 51.485 | 43.019 | 43.642 | 289.2 | 290.6 | 291.6 | 0.0 |
| 13 | 50.80 | 0.00 | -7.50 | 51.485 | 46.047 | 46.573 | 289.2 | 290.7 | 291.4 | 0.0 |
| 14 | 50.80 | 0.00 | -7.00 | 51.485 | 48.242 | 48.734 | 289.2 | 290.7 | 291.1 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 50.80 | 0.00 | -6.50 | 51.485 | 49.613 | 50.087 | 289.2 | 290.7 | 290.9 | 0.0 |
| 16 | 50.80 | 0.00 | -6.00 | 51.485 | 50.466 | 50.973 | 289.2 | 290.7 | 290.8 | 0.0 |
| 17 | 50.80 | 0.00 | -5.50 | 51.485 | 50.895 | 51.458 | 289.3 | 290.7 | 290.6 | 0.0 |
| 18 | 50.80 | 0.00 | -5.00 | 51.485 | 51.238 | 51.738 | 289.3 | 290.7 | 290.5 | 0.0 |
| 19 | 50.80 | 0.00 | -4.50 | 51.485 | 51.404 | 51.899 | 289.4 | 290.7 | 290.4 | 0.0 |
| 20 | 50.80 | 0.00 | -4.00 | 51.485 | 51.503 | 51.971 | 289.3 | 290.7 | 290.4 | 0.0 |
| 21 | 50.80 | 0.00 | -3.50 | 51.485 | 51.534 | 52.071 | 289.3 | 290.7 | 290.4 | 0.0 |
| 22 | 50.80 | 0.00 | -3.00 | 51.485 | 51.552 | 52.086 | 289.9 | 290.7 | 290.4 | 0.0 |
| 23 | 50.80 | 0.00 | -2.50 | 51.485 | 51.565 | 52.127 | 290.4 | 290.7 | 290.5 | 0.0 |
| 24 | 50.80 | 0.00 | -2.00 | 51.485 | 51.563 | 52.125 | 290.8 | 290.7 | 290.4 | 0.0 |
| 25 | 50.80 | 0.00 | -1.50 | 51.485 | 51.570 | 52.167 | 290.9 | 290.7 | 290.4 | 0.0 |
| 26 | 50.80 | 0.00 | -1.00 | 51.485 | 51.578 | 52.200 | 291.0 | 290.7 | 290.4 | 0.0 |
| 27 | 50.80 | 0.00 | -0.50 | 51.485 | 51.580 | 52.252 | 291.1 | 290.7 | 290.4 | 0.0 |
| 28 | 50.80 | 0.00 | 0.00 | 51.485 | 51.583 | 52.273 | 290.7 | 290.7 | 290.4 | 0.0 |
| 29 | 50.80 | 0.00 | 0.50 | 51.485 | 51.583 | 52.350 | 290.1 | 290.7 | 290.4 | 0.0 |
| 30 | 50.80 | 0.00 | 1.00 | 51.485 | 51.602 | 52.364 | 289.8 | 290.7 | 290.4 | 0.0 |
| 31 | 50.80 | 0.00 | 1.50 | 51.485 | 51.589 | 52.388 | 289.8 | 290.7 | 290.2 | 0.0 |
| 32 | 50.80 | 0.00 | 2.00 | 51.485 | 51.583 | 52.439 | 289.7 | 290.7 | 290.1 | 0.0 |
| 33 | 50.80 | 0.00 | 2.50 | 51.485 | 51.562 | 52.425 | 289.7 | 290.7 | 290.0 | 0.0 |
| 34 | 50.80 | 0.00 | 3.00 | 51.485 | 51.542 | 52.467 | 289.7 | 290.7 | 290.0 | 0.0 |
| 35 | 50.80 | 0.00 | 3.50 | 51.485 | 51.541 | 52.485 | 289.7 | 290.7 | 289.8 | 0.0 |
| 36 | 50.80 | 0.00 | 4.00 | 51.485 | 51.502 | 52.496 | 289.7 | 290.7 | 289.8 | 0.0 |
| 37 | 50.80 | 0.00 | 4.50 | 51.485 | 51.419 | 52.422 | 289.7 | 290.7 | 289.8 | 0.0 |
| 38 | 50.80 | 0.00 | 5.00 | 51.485 | 51.252 | 52.236 | 289.8 | 290.7 | 290.0 | 0.0 |
| 39 | 50.80 | 0.00 | 5.50 | 51.485 | 50.894 | 51.925 | 289.8 | 290.7 | 290.1 | 0.0 |
| 40 | 50.80 | 0.00 | 6.00 | 51.485 | 50.390 | 51.339 | 289.9 | 290.7 | 290.4 | 0.0 |
| 41 | 50.80 | 0.00 | 6.50 | 51.485 | 49.721 | 50.685 | 289.9 | 290.7 | 290.7 | 0.0 |
| 42 | 50.80 | 0.00 | 7.00 | 51.485 | 48.719 | 49.730 | 289.9 | 290.7 | 291.0 | 0.0 |
| 43 | 50.80 | 0.00 | 7.50 | 51.485 | 47.504 | 48.510 | 289.9 | 290.7 | 291.4 | 0.0 |
| 44 | 50.80 | 0.00 | 8.00 | 51.485 | 46.216 | 47.180 | 290.0 | 290.8 | 291.6 | 0.0 |
| 45 | 50.80 | 0.00 | 8.50 | 51.485 | 44.632 | 45.692 | 290.0 | 290.7 | 291.7 | 0.0 |
| 46 | 50.80 | 0.00 | 9.00 | 51.485 | 42.930 | 43.799 | 290.0 | 290.8 | 291.8 | 0.0 |
| 47 | 50.80 | 0.00 | 9.50 | 51.485 | 40.926 | 41.890 | 290.0 | 290.8 | 291.5 | 0.0 |
| 48 | 50.80 | 0.00 | 10.00 | 51.485 | 38.951 | 39.958 | 290.0 | 290.8 | 291.3 | 0.0 |
| 49 | 50.80 | 0.00 | 10.50 | 51.485 | 36.824 | 37.813 | 290.1 | 290.8 | 290.9 | 0.0 |
| 50 | 50.80 | 0.00 | 11.00 | 51.485 | 34.654 | 35.571 | 290.1 | 290.8 | 290.3 | 0.0 |
| 51 | 50.80 | 0.00 | 11.50 | 51.485 | 32.513 | 33.341 | 290.2 | 290.8 | 289.7 | 0.0 |
| 52 | 50.80 | 0.00 | 12.00 | 51.485 | 30.234 | 31.144 | 290.2 | 290.8 | 289.0 | 0.0 |
| 53 | 50.80 | 0.00 | 12.50 | 51.485 | 28.027 | 28.917 | 290.2 | 290.8 | 288.2 | 0.0 |
| 54 | 50.80 | 0.00 | 13.00 | 51.485 | 25.888 | 26.776 | 290.6 | 290.8 | 287.4 | 0.0 |

File : TAB519S 11-OCT-88
11-OCT-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied
to pressure data

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
KIEL WITH T/C, DRPCOR
X/D = 9

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum temperature
T3 : Probe temperature
A1 :

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.562 kPa

Mean gauged plenum pressure : 51.151 kPa
RMS gauged plenum pressure : 0.152 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | A1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 457.60 | -60.00 | 0.00 | 51.151 | 0.801 | 0.012 | 295.3 | 291.2 | 293.1 | 0.0 |
| 3 | 457.60 | -58.00 | 0.00 | 51.151 | 0.958 | 0.013 | 295.5 | 291.1 | 293.1 | 0.0 |
| 4 | 457.60 | -56.00 | 0.00 | 51.151 | 1.366 | 0.012 | 295.8 | 291.0 | 293.0 | 0.0 |
| 5 | 457.60 | -54.00 | 0.00 | 51.151 | 1.616 | 0.014 | 295.6 | 290.9 | 292.7 | 0.0 |
| 6 | 457.60 | -52.00 | 0.00 | 51.151 | 2.017 | 0.017 | 295.6 | 290.9 | 292.5 | 0.0 |
| 7 | 457.60 | -50.00 | 0.00 | 51.151 | 2.332 | 0.016 | 295.7 | 290.7 | 292.6 | 0.0 |
| 8 | 457.60 | -48.00 | 0.00 | 51.151 | 2.581 | 0.017 | 295.7 | 290.7 | 292.1 | 0.0 |
| 9 | 457.60 | -46.00 | 0.00 | 51.151 | 3.058 | 0.018 | 295.6 | 290.6 | 292.3 | 0.0 |
| 10 | 457.60 | -44.00 | 0.00 | 51.151 | 3.903 | 0.018 | 295.9 | 290.7 | 292.5 | 0.0 |
| 11 | 457.60 | -42.00 | 0.00 | 51.151 | 4.321 | 0.018 | 295.8 | 290.6 | 292.5 | 0.0 |
| 12 | 457.60 | -40.00 | 0.00 | 51.151 | 5.263 | 0.023 | 295.7 | 290.5 | 292.5 | 0.0 |
| 13 | 457.60 | -38.00 | 0.00 | 51.151 | 6.115 | 0.021 | 295.8 | 290.5 | 292.3 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 457.60 | -36.00 | 0.00 | 51.151 | 6.952 | 0.026 | 295.6 | 290.5 | 292.7 | 0.0 |
| 15 | 457.60 | -34.00 | 0.00 | 51.151 | 7.930 | 0.021 | 295.5 | 290.4 | 292.6 | 0.0 |
| 16 | 457.60 | -32.00 | 0.00 | 51.151 | 9.024 | 0.026 | 295.4 | 290.3 | 292.4 | 0.0 |
| 17 | 457.60 | -30.00 | 0.00 | 51.151 | 10.242 | 0.023 | 295.1 | 290.2 | 292.4 | 0.0 |
| 18 | 457.60 | -28.00 | 0.00 | 51.151 | 11.476 | 0.024 | 295.0 | 290.2 | 292.4 | 0.0 |
| 19 | 457.60 | -26.00 | 0.00 | 51.151 | 12.902 | 0.029 | 294.9 | 290.1 | 292.4 | 0.0 |
| 20 | 457.60 | -24.00 | 0.00 | 51.151 | 14.363 | 0.027 | 294.8 | 290.0 | 292.7 | 0.0 |
| 21 | 457.60 | -22.00 | 0.00 | 51.151 | 15.587 | 0.029 | 294.9 | 290.0 | 292.8 | 0.0 |
| 22 | 457.60 | -20.00 | 0.00 | 51.151 | 17.188 | 0.030 | 294.9 | 289.9 | 293.1 | 0.0 |
| 23 | 457.60 | -18.00 | 0.00 | 51.151 | 18.614 | 0.029 | 294.8 | 289.9 | 293.1 | 0.0 |
| 24 | 457.60 | -16.00 | 0.00 | 51.151 | 20.170 | 0.027 | 294.8 | 289.9 | 293.1 | 0.0 |
| 25 | 457.60 | -14.00 | 0.00 | 51.151 | 21.374 | 0.028 | 294.9 | 289.9 | 293.3 | 0.0 |
| 26 | 457.60 | -12.00 | 0.00 | 51.151 | 22.723 | 0.030 | 294.8 | 289.9 | 293.4 | 0.0 |
| 27 | 457.60 | -10.00 | 0.00 | 51.151 | 24.116 | 0.033 | 294.8 | 289.8 | 293.3 | 0.0 |
| 28 | 457.60 | -8.00 | 0.00 | 51.151 | 25.602 | 0.034 | 294.7 | 289.8 | 293.3 | 0.0 |
| 29 | 457.60 | -6.00 | 0.00 | 51.151 | 26.786 | 0.038 | 294.7 | 289.7 | 293.5 | 0.0 |
| 30 | 457.60 | -4.00 | 0.00 | 51.151 | 27.401 | 0.039 | 294.7 | 289.7 | 293.3 | 0.0 |
| 31 | 457.60 | -2.00 | 0.00 | 51.151 | 28.096 | 0.043 | 294.6 | 289.7 | 293.4 | 0.0 |
| 32 | 457.60 | 0.00 | 0.00 | 51.151 | 28.766 | 0.041 | 294.7 | 289.6 | 293.4 | 0.0 |
| 33 | 457.60 | 2.00 | 0.00 | 51.151 | 29.021 | 0.039 | 295.0 | 289.6 | 293.5 | 0.0 |
| 34 | 457.60 | 4.00 | 0.00 | 51.151 | 29.262 | 0.045 | 295.0 | 289.6 | 293.4 | 0.0 |
| 35 | 457.60 | 6.00 | 0.00 | 51.151 | 29.484 | 0.045 | 295.2 | 289.6 | 293.4 | 0.0 |
| 36 | 457.60 | 8.00 | 0.00 | 51.151 | 28.706 | 0.051 | 295.1 | 289.7 | 293.3 | 0.0 |
| 37 | 457.60 | 10.00 | 0.00 | 51.151 | 28.461 | 0.052 | 295.3 | 289.7 | 293.7 | 0.0 |
| 38 | 457.60 | 12.00 | 0.00 | 51.151 | 27.742 | 0.041 | 295.4 | 289.7 | 293.5 | 0.0 |
| 39 | 457.60 | 14.00 | 0.00 | 51.151 | 26.939 | 0.046 | 295.8 | 289.8 | 293.6 | 0.0 |
| 40 | 457.60 | 16.00 | 0.00 | 51.151 | 25.479 | 0.048 | 295.8 | 289.8 | 293.5 | 0.0 |
| 41 | 457.60 | 18.00 | 0.00 | 51.151 | 24.204 | 0.046 | 295.6 | 289.8 | 293.2 | 0.0 |
| 42 | 457.60 | 20.00 | 0.00 | 51.151 | 23.348 | 0.046 | 295.7 | 289.9 | 293.1 | 0.0 |
| 43 | 457.60 | 22.00 | 0.00 | 51.151 | 21.472 | 0.045 | 295.8 | 289.9 | 292.8 | 0.0 |
| 44 | 457.60 | 24.00 | 0.00 | 51.151 | 20.041 | 0.045 | 295.7 | 289.9 | 292.9 | 0.0 |
| 45 | 457.60 | 26.00 | 0.00 | 51.151 | 18.336 | 0.044 | 295.7 | 289.8 | 292.8 | 0.0 |
| 46 | 457.60 | 28.00 | 0.00 | 51.151 | 17.338 | 0.041 | 295.7 | 289.9 | 292.5 | 0.0 |
| 47 | 457.60 | 30.00 | 0.00 | 51.151 | 15.532 | 0.044 | 295.5 | 289.8 | 292.5 | 0.0 |
| 48 | 457.60 | 32.00 | 0.00 | 51.151 | 14.286 | 0.039 | 295.8 | 289.7 | 292.1 | 0.0 |
| 49 | 457.60 | 34.00 | 0.00 | 51.151 | 12.758 | 0.036 | 295.9 | 289.7 | 292.4 | 0.0 |
| 50 | 457.60 | 36.00 | 0.00 | 51.151 | 11.772 | 0.036 | 295.9 | 289.8 | 292.0 | 0.0 |
| 51 | 457.60 | 38.00 | 0.00 | 51.151 | 10.224 | 0.035 | 295.8 | 289.8 | 291.7 | 0.0 |
| 52 | 457.60 | 40.00 | 0.00 | 51.151 | 9.237 | 0.033 | 296.0 | 289.8 | 291.9 | 0.0 |
| 53 | 457.60 | 42.00 | 0.00 | 51.151 | 8.140 | 0.032 | 296.0 | 289.7 | 292.0 | 0.0 |
| 54 | 457.60 | 44.00 | 0.00 | 51.151 | 7.105 | 0.029 | 296.3 | 289.7 | 291.9 | 0.0 |
| 55 | 457.60 | 46.00 | 0.00 | 51.151 | 5.911 | 0.029 | 296.2 | 289.7 | 291.7 | 0.0 |
| 56 | 457.60 | 48.00 | 0.00 | 51.151 | 5.316 | 0.031 | 296.1 | 289.7 | 291.6 | 0.0 |
| 57 | 457.60 | 50.00 | 0.00 | 51.151 | 4.718 | 0.027 | 296.2 | 289.7 | 292.0 | 0.0 |
| 58 | 457.60 | 52.00 | 0.00 | 51.151 | 3.949 | 0.025 | 296.5 | 289.7 | 291.9 | 0.0 |
| 59 | 457.60 | 54.00 | 0.00 | 51.151 | 3.521 | 0.020 | 297.2 | 289.7 | 292.3 | 0.0 |
| 60 | 457.60 | 56.00 | 0.00 | 51.151 | 2.894 | 0.016 | 297.8 | 289.6 | 292.1 | 0.0 |
| 61 | 457.60 | 58.00 | 0.00 | 51.151 | 2.483 | 0.018 | 297.3 | 289.6 | 292.2 | 0.0 |
| 62 | 457.60 | 60.00 | 0.00 | 51.151 | 2.182 | 0.017 | 297.4 | 289.5 | 291.9 | 0.0 |

File : TAB520S 12-OCT-88
12-OCT-88

Reduced experimental data file
Linear smoothing for plenum total pressure fluctuations applied to pressure data

HORIZONTAL PROFILE

Unexcited, unheated jet, Mj = 0.8
BACKED B/L PROBE
X/D = 9, DRPTAB

C1 : AXIAL
C2 : HORIZONTAL
C3 : VERTICAL
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum temperature
T3 : Probe temperature
A1 :

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.273 kPa

Mean gauged plenum pressure : 51.411 kPa
RMS gauged plenum pressure : 0.100 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | A1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 3 | 457.60 | -58.00 | 0.00 | 51.411 | 0.692 | 0.016 | 283.4 | 284.5 | 284.1 | 0.0 |
| 4 | 457.60 | -56.00 | 0.00 | 51.411 | 0.930 | 0.017 | 283.4 | 284.9 | 284.2 | 0.0 |
| 5 | 457.60 | -54.00 | 0.00 | 51.411 | 1.109 | 0.022 | 283.4 | 285.3 | 284.0 | 0.0 |
| 6 | 457.60 | -52.00 | 0.00 | 51.411 | 1.373 | 0.021 | 283.4 | 285.5 | 284.1 | 0.0 |
| 7 | 457.60 | -50.00 | 0.00 | 51.411 | 1.764 | 0.024 | 283.4 | 285.8 | 284.0 | 0.0 |
| 8 | 457.60 | -48.00 | 0.00 | 51.411 | 2.183 | 0.023 | 283.3 | 286.0 | 284.0 | 0.0 |
| 9 | 457.60 | -46.00 | 0.00 | 51.411 | 2.740 | 0.033 | 283.2 | 286.1 | 284.0 | 0.0 |
| 10 | 457.60 | -44.00 | 0.00 | 51.411 | 3.144 | 0.030 | 283.3 | 286.3 | 283.9 | 0.0 |
| 11 | 457.60 | -42.00 | 0.00 | 51.411 | 3.868 | 0.035 | 283.3 | 286.4 | 283.8 | 0.0 |
| 12 | 457.60 | -40.00 | 0.00 | 51.411 | 4.473 | 0.045 | 283.4 | 286.5 | 284.0 | 0.0 |
| 13 | 457.60 | -38.00 | 0.00 | 51.411 | 5.438 | 0.045 | 283.3 | 286.6 | 283.9 | 0.0 |
| 14 | 457.60 | -36.00 | 0.00 | 51.411 | 6.304 | 0.045 | 283.3 | 286.6 | 283.9 | 0.0 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 457.60 | -34.00 | 0.00 | 51.411 | 7.207 | 0.052 | 283.3 | 286.7 | 283.9 | 0.0 |
| 16 | 457.60 | -32.00 | 0.00 | 51.411 | 8.243 | 0.053 | 283.3 | 286.8 | 283.9 | 0.0 |
| 17 | 457.60 | -30.00 | 0.00 | 51.411 | 9.473 | 0.057 | 283.3 | 286.8 | 284.1 | 0.0 |
| 18 | 457.60 | -28.00 | 0.00 | 51.411 | 10.675 | 0.054 | 283.3 | 286.8 | 283.9 | 0.0 |
| 19 | 457.60 | -26.00 | 0.00 | 51.411 | 11.978 | 0.052 | 283.4 | 286.8 | 284.1 | 0.0 |
| 20 | 457.60 | -24.00 | 0.00 | 51.411 | 13.482 | 0.052 | 283.4 | 286.9 | 284.0 | 0.0 |
| 21 | 457.60 | -22.00 | 0.00 | 51.411 | 14.864 | 0.055 | 283.4 | 286.9 | 283.9 | 0.0 |
| 22 | 457.60 | -20.00 | 0.00 | 51.411 | 16.450 | 0.058 | 283.4 | 286.9 | 284.0 | 0.0 |
| 23 | 457.60 | -18.00 | 0.00 | 51.411 | 17.935 | 0.060 | 283.4 | 287.0 | 284.2 | 0.0 |
| 24 | 457.60 | -16.00 | 0.00 | 51.411 | 19.469 | 0.058 | 283.4 | 287.0 | 284.0 | 0.0 |
| 25 | 457.60 | -14.00 | 0.00 | 51.411 | 20.891 | 0.056 | 283.4 | 287.0 | 284.0 | 0.0 |
| 26 | 457.60 | -12.00 | 0.00 | 51.411 | 22.165 | 0.052 | 283.4 | 287.0 | 284.3 | 0.0 |
| 27 | 457.60 | -10.00 | 0.00 | 51.411 | 23.539 | 0.052 | 283.4 | 287.0 | 284.3 | 0.0 |
| 28 | 457.60 | -8.00 | 0.00 | 51.411 | 24.929 | 0.048 | 283.4 | 287.0 | 284.0 | 0.0 |
| 29 | 457.60 | -6.00 | 0.00 | 51.411 | 25.894 | 0.051 | 283.5 | 287.1 | 284.1 | 0.0 |
| 30 | 457.60 | -4.00 | 0.00 | 51.411 | 26.753 | 0.056 | 283.4 | 287.1 | 284.2 | 0.0 |
| 31 | 457.60 | -2.00 | 0.00 | 51.411 | 27.497 | 0.051 | 283.4 | 287.1 | 284.1 | 0.0 |
| 32 | 457.60 | 0.00 | 0.00 | 51.411 | 27.912 | 0.048 | 283.4 | 287.1 | 284.1 | 0.0 |
| 33 | 457.60 | 2.00 | 0.00 | 51.411 | 28.328 | 0.051 | 283.4 | 287.1 | 284.1 | 0.0 |
| 34 | 457.60 | 4.00 | 0.00 | 51.411 | 28.110 | 0.051 | 283.4 | 287.1 | 283.9 | 0.0 |
| 35 | 457.60 | 6.00 | 0.00 | 51.411 | 27.831 | 0.053 | 283.4 | 287.2 | 284.1 | 0.0 |
| 36 | 457.60 | 8.00 | 0.00 | 51.411 | 27.099 | 0.051 | 283.5 | 287.1 | 284.0 | 0.0 |
| 37 | 457.60 | 10.00 | 0.00 | 51.411 | 26.193 | 0.049 | 283.5 | 287.2 | 284.2 | 0.0 |
| 38 | 457.60 | 12.00 | 0.00 | 51.411 | 25.227 | 0.050 | 283.5 | 287.2 | 284.2 | 0.0 |
| 39 | 457.60 | 14.00 | 0.00 | 51.411 | 24.132 | 0.048 | 283.4 | 287.2 | 284.2 | 0.0 |
| 40 | 457.60 | 16.00 | 0.00 | 51.411 | 22.706 | 0.048 | 283.4 | 287.2 | 284.2 | 0.0 |
| 41 | 457.60 | 18.00 | 0.00 | 51.411 | 21.379 | 0.042 | 283.5 | 287.3 | 284.0 | 0.0 |
| 42 | 457.60 | 20.00 | 0.00 | 51.411 | 19.913 | 0.042 | 283.5 | 287.3 | 284.1 | 0.0 |
| 43 | 457.60 | 22.00 | 0.00 | 51.411 | 18.528 | 0.046 | 283.6 | 287.3 | 284.1 | 0.0 |
| 44 | 457.60 | 24.00 | 0.00 | 51.411 | 17.061 | 0.046 | 283.6 | 287.4 | 284.3 | 0.0 |
| 45 | 457.60 | 26.00 | 0.00 | 51.411 | 15.640 | 0.041 | 283.6 | 287.4 | 284.2 | 0.0 |
| 46 | 457.60 | 28.00 | 0.00 | 51.411 | 14.199 | 0.044 | 283.6 | 287.4 | 284.1 | 0.0 |
| 47 | 457.60 | 30.00 | 0.00 | 51.411 | 12.622 | 0.042 | 283.6 | 287.4 | 284.3 | 0.0 |
| 48 | 457.60 | 32.00 | 0.00 | 51.411 | 11.442 | 0.041 | 283.7 | 287.4 | 284.2 | 0.0 |
| 49 | 457.60 | 34.00 | 0.00 | 51.411 | 10.243 | 0.038 | 283.7 | 287.4 | 284.2 | 0.0 |
| 50 | 457.60 | 36.00 | 0.00 | 51.411 | 9.115 | 0.038 | 283.8 | 287.4 | 284.2 | 0.0 |
| 51 | 457.60 | 38.00 | 0.00 | 51.411 | 7.926 | 0.038 | 283.8 | 287.4 | 284.3 | 0.0 |
| 52 | 457.60 | 40.00 | 0.00 | 51.411 | 7.064 | 0.037 | 283.8 | 287.4 | 284.2 | 0.0 |
| 53 | 457.60 | 42.00 | 0.00 | 51.411 | 6.116 | 0.035 | 283.8 | 287.4 | 284.3 | 0.0 |
| 54 | 457.60 | 44.00 | 0.00 | 51.411 | 5.337 | 0.034 | 283.8 | 287.5 | 284.3 | 0.0 |
| 55 | 457.60 | 46.00 | 0.00 | 51.411 | 4.560 | 0.034 | 283.8 | 287.4 | 284.4 | 0.0 |
| 56 | 457.60 | 48.00 | 0.00 | 51.411 | 3.925 | 0.035 | 283.9 | 287.5 | 284.3 | 0.0 |
| 57 | 457.60 | 50.00 | 0.00 | 51.411 | 3.336 | 0.031 | 283.9 | 287.4 | 284.4 | 0.0 |
| 58 | 457.60 | 52.00 | 0.00 | 51.411 | 2.810 | 0.029 | 283.9 | 287.5 | 284.3 | 0.0 |
| 59 | 457.60 | 54.00 | 0.00 | 51.411 | 2.377 | 0.029 | 283.9 | 287.4 | 284.4 | 0.0 |
| 60 | 457.60 | 56.00 | 0.00 | 51.411 | 1.980 | 0.026 | 283.9 | 287.4 | 284.3 | 0.0 |
| 61 | 457.60 | 58.00 | 0.00 | 51.411 | 1.684 | 0.021 | 284.0 | 287.4 | 284.4 | 0.0 |
| 62 | 457.60 | 60.00 | 0.00 | 51.411 | 1.368 | 0.020 | 284.1 | 287.4 | 284.5 | 0.0 |

File : TAB135T

29-OCT-88
29-OCT-88

Reduced experimental data file

VERTICAL PROFILE

Unexcited, unheated jet, Mj = 0.8
DRPTAB

C1 : X/D = 1
C2 : ZERO
C3 : VARIABLE
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 98.612 kPa

Mean gauged plenum pressure : 51.202 kPa
RMS gauged plenum pressure : 0.094 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 50.80 | 0.00 | -20.00 | 51.427 | 0.031 | 0.020 | 290.8 | 286.2 | 288.5 | 288.5 |
| 3 | 50.80 | 0.00 | -19.50 | 51.349 | 0.018 | 0.024 | 290.6 | 286.2 | 289.6 | 289.6 |
| 4 | 50.80 | 0.00 | -19.00 | 51.313 | 0.014 | 0.025 | 290.6 | 286.2 | 289.6 | 289.6 |
| 5 | 50.80 | 0.00 | -18.50 | 51.279 | 0.013 | 0.023 | 290.7 | 286.3 | 289.6 | 289.6 |
| 6 | 50.80 | 0.00 | -18.00 | 51.241 | 0.013 | 0.022 | 290.6 | 286.3 | 289.1 | 289.1 |
| 7 | 50.80 | 0.00 | -17.50 | 51.233 | 0.014 | 0.025 | 290.6 | 286.4 | 288.9 | 288.9 |
| 8 | 50.80 | 0.00 | -17.00 | 51.223 | 0.025 | 0.027 | 290.7 | 286.4 | 288.5 | 288.5 |
| 9 | 50.80 | 0.00 | -16.50 | 51.262 | 0.118 | 0.025 | 290.8 | 286.4 | 288.3 | 288.2 |
| 10 | 50.80 | 0.00 | -16.00 | 51.270 | 0.292 | 0.032 | 290.7 | 286.4 | 287.6 | 287.4 |
| 11 | 50.80 | 0.00 | -15.50 | 51.263 | 0.683 | 0.033 | 290.7 | 286.4 | 287.2 | 286.6 |
| 12 | 50.80 | 0.00 | -15.00 | 51.253 | 1.334 | 0.034 | 290.7 | 286.5 | 286.2 | 285.1 |
| 13 | 50.80 | 0.00 | -14.50 | 51.264 | 2.183 | 0.030 | 290.7 | 286.5 | 285.5 | 283.7 |
| 14 | 50.80 | 0.00 | -14.00 | 51.270 | 3.436 | 0.031 | 290.8 | 286.6 | 284.9 | 282.1 |
| 15 | 50.80 | 0.00 | -13.50 | 51.270 | 4.944 | 0.033 | 290.7 | 286.5 | 284.4 | 280.4 |
| 16 | 50.80 | 0.00 | -13.00 | 51.252 | 6.982 | 0.036 | 290.9 | 286.6 | 284.3 | 278.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 17 | 50.80 | 0.00 | -12.50 | 51.253 | 9.530 | 0.037 | 290.9 | 286.6 | 283.7 | 276.3 |
| 18 | 50.80 | 0.00 | -12.00 | 51.229 | 12.595 | 0.039 | 291.1 | 286.6 | 283.5 | 273.9 |
| 19 | 50.80 | 0.00 | -11.50 | 51.248 | 16.045 | 0.037 | 291.7 | 286.6 | 283.6 | 271.6 |
| 20 | 50.80 | 0.00 | -11.00 | 51.246 | 19.753 | 0.036 | 292.0 | 286.6 | 283.3 | 268.9 |
| 21 | 50.80 | 0.00 | -10.50 | 51.232 | 24.462 | 0.031 | 292.2 | 286.7 | 283.3 | 265.9 |
| 22 | 50.80 | 0.00 | -10.00 | 51.220 | 29.695 | 0.037 | 292.4 | 286.7 | 283.2 | 262.6 |
| 23 | 50.80 | 0.00 | -9.50 | 51.224 | 34.561 | 0.035 | 292.6 | 286.7 | 283.1 | 259.8 |
| 24 | 50.80 | 0.00 | -9.00 | 51.218 | 39.377 | 0.032 | 292.4 | 286.7 | 282.8 | 256.9 |
| 25 | 50.80 | 0.00 | -8.50 | 51.204 | 43.189 | 0.036 | 291.9 | 286.8 | 282.5 | 254.6 |
| 26 | 50.80 | 0.00 | -8.00 | 51.225 | 46.355 | 0.036 | 291.6 | 286.7 | 282.0 | 252.5 |
| 27 | 50.80 | 0.00 | -7.50 | 51.197 | 48.412 | 0.035 | 291.4 | 286.7 | 281.6 | 251.2 |
| 28 | 50.80 | 0.00 | -7.00 | 51.199 | 49.728 | 0.036 | 291.5 | 286.8 | 281.1 | 250.1 |
| 29 | 50.80 | 0.00 | -6.50 | 51.189 | 50.432 | 0.035 | 291.6 | 286.8 | 280.7 | 249.4 |
| 30 | 50.80 | 0.00 | -6.00 | 51.200 | 50.823 | 0.037 | 291.6 | 286.8 | 280.5 | 249.0 |
| 31 | 50.80 | 0.00 | -5.50 | 51.186 | 51.029 | 0.034 | 291.7 | 286.8 | 280.2 | 248.6 |
| 32 | 50.80 | 0.00 | -5.00 | 51.192 | 51.152 | 0.037 | 291.6 | 286.8 | 280.1 | 248.5 |
| 33 | 50.80 | 0.00 | -4.50 | 51.181 | 51.228 | 0.032 | 291.7 | 286.8 | 280.0 | 248.4 |
| 34 | 50.80 | 0.00 | -4.00 | 51.184 | 51.221 | 0.034 | 291.8 | 286.8 | 279.9 | 248.3 |
| 35 | 50.80 | 0.00 | -3.50 | 51.171 | 51.232 | 0.037 | 291.7 | 286.9 | 279.9 | 248.3 |
| 36 | 50.80 | 0.00 | -3.00 | 51.164 | 51.219 | 0.035 | 291.8 | 286.9 | 279.9 | 248.3 |
| 37 | 50.80 | 0.00 | -2.50 | 51.175 | 51.235 | 0.033 | 292.0 | 286.9 | 279.9 | 248.3 |
| 38 | 50.80 | 0.00 | -2.00 | 51.187 | 51.238 | 0.034 | 291.9 | 286.9 | 279.9 | 248.3 |
| 39 | 50.80 | 0.00 | -1.50 | 51.171 | 51.238 | 0.037 | 291.9 | 286.9 | 279.9 | 248.3 |
| 40 | 50.80 | 0.00 | -1.00 | 51.179 | 51.229 | 0.034 | 291.8 | 286.9 | 279.9 | 248.3 |
| 41 | 50.80 | 0.00 | -0.50 | 51.128 | 51.195 | 0.029 | 292.0 | 286.9 | 279.9 | 248.3 |
| 42 | 50.80 | 0.00 | 0.00 | 51.122 | 51.171 | 0.029 | 292.1 | 286.9 | 279.9 | 248.3 |
| 43 | 50.80 | 0.00 | 0.50 | 51.101 | 51.158 | 0.026 | 292.3 | 286.9 | 279.9 | 248.3 |
| 44 | 50.80 | 0.00 | 1.00 | 51.098 | 51.151 | 0.027 | 292.3 | 286.9 | 279.8 | 248.2 |
| 45 | 50.80 | 0.00 | 1.50 | 51.109 | 51.152 | 0.031 | 292.4 | 286.9 | 279.8 | 248.2 |
| 46 | 50.80 | 0.00 | 2.00 | 51.106 | 51.142 | 0.030 | 292.2 | 286.9 | 279.8 | 248.2 |
| 47 | 50.80 | 0.00 | 2.50 | 51.092 | 51.130 | 0.028 | 292.2 | 286.9 | 279.7 | 248.2 |
| 48 | 50.80 | 0.00 | 3.00 | 51.068 | 51.105 | 0.030 | 292.1 | 286.9 | 279.6 | 248.1 |
| 49 | 50.80 | 0.00 | 3.50 | 51.084 | 51.097 | 0.031 | 292.0 | 286.9 | 279.6 | 248.1 |
| 50 | 50.80 | 0.00 | 4.00 | 51.042 | 51.021 | 0.027 | 292.1 | 286.9 | 279.6 | 248.1 |
| 51 | 50.80 | 0.00 | 4.50 | 51.039 | 50.907 | 0.026 | 292.2 | 286.9 | 279.7 | 248.3 |
| 52 | 50.80 | 0.00 | 5.00 | 51.060 | 50.679 | 0.027 | 292.1 | 286.9 | 280.0 | 248.6 |

File : TAB136T

1-NOV-88
1-NOV-88

Reduced experimental data file

DIAGONAL PROFILE

Unexcited, unheated jet, Mj = 0.8
-14 DEG, DRPTAB

C1 : X/D = 1
C2 : DIAGONAL
C3 : 0
P1 : Dif. btw. plnm. tot. & amb. press.
P2 : Dif. btw. prb. tot. & amb. press.
P3 : Dif. btw. prb. tot. & stat. press.
T1 : Ambient temperature
T2 : Plenum TOTAL TEMPERATURE
T3 : Probe TOTAL TEMPERATURE
T4 : PROBE STATIC TEMPERATURE

Transducer names :

P1 ... P305D/1 - 32 psi
P2 ... P305D/2 - 32 psi
P3 ... P305D/1 - 20 psi

Mean absolute ambient press. : 97.901 kPa

Mean gauged plenum pressure : 51.272 kPa
RMS gauged plenum pressure : 0.060 kPa

| Test pt. | C1 mm | C2 mm | C3 mm | P1 kPa | P2 kPa | P3 kPa | T1 K | T2 K | T3 K | T4 K |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50.80 | 0.00 | 0.00 | 51.211 | 51.384 | 0.016 | 284.0 | 284.5 | 277.4 | 245.8 |
| 2 | 50.80 | -60.00 | 0.00 | 51.196 | 0.031 | 0.017 | 284.0 | 284.6 | 283.6 | 283.6 |
| 3 | 50.80 | -58.00 | 0.00 | 51.199 | 0.013 | 0.023 | 283.9 | 284.7 | 283.5 | 283.5 |
| 4 | 50.80 | -56.00 | 0.00 | 51.222 | 0.013 | 0.026 | 283.9 | 284.8 | 283.5 | 283.5 |
| 5 | 50.80 | -54.00 | 0.00 | 51.234 | 0.009 | 0.028 | 284.0 | 284.8 | 283.3 | 283.3 |
| 6 | 50.80 | -52.00 | 0.00 | 51.245 | 0.009 | 0.033 | 284.1 | 284.9 | 282.9 | 282.9 |
| 7 | 50.80 | -50.00 | 0.00 | 51.279 | 0.009 | 0.034 | 284.3 | 285.0 | 282.2 | 282.2 |
| 8 | 50.80 | -48.00 | 0.00 | 51.281 | 0.454 | 0.039 | 284.3 | 285.1 | 280.6 | 280.2 |
| 9 | 50.80 | -46.00 | 0.00 | 51.300 | 6.064 | 0.040 | 284.2 | 285.1 | 275.7 | 271.0 |
| 10 | 50.80 | -44.00 | 0.00 | 51.318 | 15.562 | 0.044 | 284.3 | 285.1 | 277.4 | 265.9 |
| 11 | 50.80 | -42.00 | 0.00 | 51.306 | 29.140 | 0.044 | 284.3 | 285.1 | 280.6 | 260.4 |
| 12 | 50.80 | -40.00 | 0.00 | 51.335 | 36.086 | 0.047 | 284.3 | 285.2 | 281.8 | 257.6 |
| 13 | 50.80 | -38.00 | 0.00 | 51.352 | 39.111 | 0.048 | 284.3 | 285.2 | 282.4 | 256.5 |
| 14 | 50.80 | -36.00 | 0.00 | 51.335 | 39.774 | 0.049 | 284.3 | 285.2 | 282.0 | 255.8 |
| 15 | 50.80 | -34.00 | 0.00 | 51.297 | 44.256 | 0.053 | 284.3 | 285.3 | 281.3 | 252.8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 50.80 | -32.00 | 0.00 | 51.290 | 48.582 | 0.053 | 284.3 | 285.3 | 279.8 | 249.3 |
| 17 | 50.80 | -30.00 | 0.00 | 51.293 | 50.461 | 0.055 | 284.3 | 285.3 | 278.9 | 247.6 |
| 18 | 50.80 | -28.00 | 0.00 | 51.284 | 50.806 | 0.055 | 284.2 | 285.3 | 278.4 | 247.0 |
| 19 | 50.80 | -26.00 | 0.00 | 51.283 | 51.229 | 0.062 | 284.0 | 285.2 | 278.0 | 246.4 |
| 20 | 50.80 | -24.00 | 0.00 | 51.274 | 51.357 | 0.059 | 284.0 | 285.2 | 278.0 | 246.4 |
| 21 | 50.80 | -22.00 | 0.00 | 51.267 | 51.423 | 0.061 | 284.0 | 285.2 | 278.0 | 246.3 |
| 22 | 50.80 | -20.00 | 0.00 | 51.256 | 51.426 | 0.060 | 284.1 | 285.3 | 278.1 | 246.4 |
| 23 | 50.80 | -18.00 | 0.00 | 51.270 | 51.436 | 0.063 | 284.3 | 285.3 | 278.1 | 246.4 |
| 24 | 50.80 | -16.00 | 0.00 | 51.254 | 51.432 | 0.068 | 284.4 | 285.3 | 278.1 | 246.4 |
| 25 | 50.80 | -14.00 | 0.00 | 51.264 | 51.435 | 0.069 | 284.4 | 285.3 | 278.1 | 246.4 |
| 26 | 50.80 | -12.00 | 0.00 | 51.288 | 51.471 | 0.067 | 284.5 | 285.3 | 278.1 | 246.4 |
| 27 | 50.80 | -10.00 | 0.00 | 51.313 | 51.492 | 0.071 | 284.7 | 285.3 | 278.1 | 246.4 |
| 28 | 50.80 | -8.00 | 0.00 | 51.345 | 51.512 | 0.073 | 284.8 | 285.4 | 278.2 | 246.5 |
| 29 | 50.80 | -6.00 | 0.00 | 51.343 | 51.523 | 0.075 | 284.8 | 285.4 | 278.2 | 246.5 |
| 30 | 50.80 | -4.00 | 0.00 | 51.361 | 51.544 | 0.079 | 284.9 | 285.4 | 278.2 | 246.4 |
| 31 | 50.80 | -2.00 | 0.00 | 51.364 | 51.542 | 0.076 | 284.9 | 285.4 | 278.2 | 246.4 |
| 32 | 50.80 | 0.00 | 0.00 | 51.353 | 51.522 | 0.075 | 285.0 | 285.4 | 278.3 | 246.5 |
| 33 | 50.80 | 2.00 | 0.00 | 51.339 | 51.526 | 0.078 | 285.0 | 285.5 | 278.4 | 246.6 |
| 34 | 50.80 | 4.00 | 0.00 | 51.326 | 51.503 | 0.076 | 285.1 | 285.5 | 278.4 | 246.6 |
| 35 | 50.80 | 6.00 | 0.00 | 51.297 | 51.469 | 0.074 | 285.2 | 285.5 | 278.5 | 246.8 |
| 36 | 50.80 | 8.00 | 0.00 | 51.255 | 51.423 | 0.074 | 285.3 | 285.5 | 278.5 | 246.8 |
| 37 | 50.80 | 10.00 | 0.00 | 51.226 | 51.407 | 0.076 | 285.4 | 285.5 | 278.4 | 246.7 |
| 38 | 50.80 | 12.00 | 0.00 | 51.225 | 51.380 | 0.071 | 285.4 | 285.5 | 278.5 | 246.8 |
| 39 | 50.80 | 14.00 | 0.00 | 51.188 | 51.346 | 0.072 | 285.4 | 285.5 | 278.5 | 246.8 |
| 40 | 50.80 | 16.00 | 0.00 | 51.173 | 51.324 | 0.077 | 285.4 | 285.5 | 278.5 | 246.8 |
| 41 | 50.80 | 18.00 | 0.00 | 51.154 | 51.295 | 0.074 | 285.6 | 285.5 | 278.6 | 246.9 |
| 42 | 50.80 | 20.00 | 0.00 | 51.149 | 51.266 | 0.070 | 285.7 | 285.6 | 278.7 | 247.0 |
| 43 | 50.80 | 0.00 | 0.00 | 51.137 | 51.295 | 0.066 | 285.8 | 285.5 | 278.4 | 246.7 |

# APPENDIX

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| TAB049S | 0 - 0 (Baseline) | 1 | 1 | 0.8 | V | 506 |
| TAB053S | 0 - 0 (Baseline) | 1 | 1 | 0.8 | V | 508 |
| TAB058S | 4" Pipe, Baseline | 1 | 1 | 0.2 | V | 486 |
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| TAB126T | 0 - 0 (Baseline) | 2 | 1 | 0.8 | H | 58 |
| TAB127T | 0 - 0 (Baseline) | 5 | 1 | 0.8 | V | 54 |
| TAB128T | 0 - 0 (Baseline) | 5 | 1 | 0.8 | H | 52 |
| TAB129T | 0 - 0 (Baseline) | 7 | 1 | 0.8 | V | 48 |
| TAB130T | 0 - 0 (Baseline) | 7 | 1 | 0.8 | H | 46 |
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| TAB134T | 0 - 0 (Baseline) | 11 | 1 | 0.8 | H | 34 |
| TAB135T | 0 - 0 (Baseline) | 1 | 1 | 0.8 | V | 64, 516 |
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| TAB149T | I - B | 9 | 1 | 0.8 | H | 110, 344 |
| TAB151T | II - A | 9 | 1 | 0.8 | H | 134 |
| TAB152T | II - A | 9 | 1 | 0.8 | V | 136 |
| TAB153T | IV - A | 9 | 1 | 0.8 | H | 150 |
| TAB154T | IV - A | 9 | 1 | 0.8 | V | 152 |
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## INDEX (CONT'D)

## INDEX (CONT'D)

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